NACOmatic

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HI Min Alt -
                4
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       TO -
               7
       HNL -
               22
       HNM -
               11
               13
       ITO -
       JRF -
               84
       KOA -
               66
       LIH -
               96
       LNY -
               92
       MKK -
               87
       MUE -
               80
       OGG -
               51
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NIANAE



INSTRUMENT APPROACH PROCEDURE CHARTS

AIFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

| BABELTHUAP. KOROR. PS |
|---|
| BABELTHUAP/KOROR |
| NA except standard for operators with approved weather reporting service. Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2½. |
| DALAP, RM MARSHALL ISLANDS INTLNDB Rwy 7 ¹ NDB Rwy 25 ¹ RNAV (GPS) Rwy 7 ² RNAV (GPS) Rwy 25 ² |
| ¹ NA when Majuro Radio closed. ² NA when local weather not available. |
| GUAM, GQ |

ALTERNATE MINIMUMS

ILS or LOC Rwy 6R1

| RNAV (GPS) Y Rwy 6R ² |
|--|
| RNAV (GPS) Y Rwy 24L3 |
| RNAV (GPS) Y Rwy 24R3 |
| TACAN Rwy 24R4 |
| ¹ ILS,LOC, Categories A,B, 1200-2; Categories |

GUAM INTL ILS or LOC Rwy 6L1

C,D, 1200-3.

²Category D, 800-21/4.

3Category C, 800-21/4; Catagory D, 800-21/2. ⁴Categories A, B, 900-2; Category C, 900-23/4; Category D, 900-3.

HILO, HI

HILO INTL ILS or LOC Rwy 26 ILS. Category D. 700-2.

NA when control tower closed.

| NAME | |
|-----------|---|
| HONOLULU. | н |

ALTERNATE MINIMUMS HONOLULU INTL ILS Rwy 4R1

> LDA/DME Rwy 26L1 RNAV (GPS) Y Rwy 4R2 RNAV (GPS) Y Rwy 8L3 VOR/DME or TACAN or GPS-B⁴ VOR or TACAN or GPS-A1 VOR or TACAN Rwv 4R5

¹Category E, 1500-3.

²Category D, 900-21/2; Category E, 1500-3.

3Category D, 900-21/2; Category E, 1700-3.

4Category E, 900-3.

⁵Category D, 800-21/2.

KAHULUI. HI

KAHULUI ILS Rwy 212 LOC/DME BC Rwy 202

NDB/DME Rwy 22 RNAV (GPS) Rwy 233 VOR/DME or TACAN Rwy 204

¹ILS, Category E, 1200-3. LOC, Category E, 1200-3.

²NA when control tower closed

³NA when local weather not available

⁴NA when control tower closed, except for operators with approved weather reporting service.

KAILUA-KONA, HI

KONA INTL AT KEAHOLE LOC Rwy 17 NA when control tower closed.

KAMUELA, HI

WAIMEA-KOHALA......VOR/DME-A VOR/DME Rwy 41

Categories A,B, 1100-2, Category C, 1100-3, Category D, 1300-3.

¹Categories A,B, 900-2, Category C, 900-21/2, Category D, 1300-3.





NAME ALTERNATE MINIMUMS NAME **ALTERNATE MINIMUMS** POHNPEI ISLAND, FM KAPOLEI. HI KALAELOA (JOHN RODGERS NDB Rwy 4R FIELD) Category C, 800-21/4; Category D, 800-21/2. KAUNAKAKAI.HI MOLOKAI VOR or TACAN or GPS-A NA when local weather not available. Categories A.B. 1200-2: Categories C.D. 1200-3. ¹Category D, 800-21/4. ²Categories A,B, 1000-21/4; Category C, 1000-KOSRAE, FM 23/4; Category D, 1000-3. KOSRAENDB/DME-A¹² SAIPAN, CQ RNAV (GPS) Rwv 53 RNAV (GPS) Rwv 234 FRANCISCO C. ADA/ ¹NA when NDB (UKS) not monitored or local weather not available. Both NDB (UKS) monitored and local weather available Monday NA except standard for operators with through Saturday from 2100 UTC to 0500 approved weather reporting service. UTC (0800 local to 1600 local). 2800-3. 3NA except standard for operators with approved weather reporting service. ⁴NA except categories A,B, standard, Category ¹NA except standard for operators with C, 800-21/4, Category D 800-21/2, for operators with approved weather reporting service. approved weather reporting service. ²NA when terminal weather not available 0900 LANAI CITY, HI UTC to 2000 UTC except for operators with LANAIILS or LOC Rwy 3 VOR or TACAN or GPS-A weather available on Rota Radio 123.6 from VOR or TACAN or GPS Rwy 3 2000 UTC to 0900 UTC. 3Category D, 800-21/4. NA when local weather not received except for operators with approved weather reporting service TINIAN ISLAND, CQ LIHUE. HI TINIAN INTL NDB-A Category C, 800-21/4; Category D, 800-21/2. LIHUEILS or LOC Rwy 351 RNAV (GPS) Rwv 172 RNAV (GPS) Y Rwv 212 operators with approved weather reporting RNAV (GPS) Y Rwy 353 service. ¹ILS,LOC,NA when control tower closed; **TUTUILA, AQ** LOC, Category E, NA. PAGO PAGO INTLILS/DME Rwv 51 ²Category B, 900-2; Category C, 1000-2³/₄; Category D, 1000-3.

3Category C, 800-21/4; Category D, 800-21/2.

MIDWAY ATOLL, MQ

HENDERSON FIELD NDB Rwy 6 NDB Rwv 24 RNAV (GPS) Rwy 6 RNAV (GPS) Rwy 24

NA except standard for operators with approved weather reporting service.

POHNPEI INTL NDB or GPS-B1 NDB or GPS-C1 NDB/DME or GPS-A1 **NDB/DME Rwy 9,** 800-3

RNAV (GPS) Rwy 92 RNAV (GPS) Rwv 271

SAIPAN INTL GPS Rwy 7

ROTA INTL GPS Rwy 91 GPS Rwy 271 NDB Rwv 9²³ NDB Rwv 27²³

approved weather reporting service. Terminal

NA when local weather not available except for

NDB-C² VOR-D34

¹ILS, Categories C,D, 700-2. ²Category D, 800-21/4.

³NA when control zone not in effect.

Categories A,B, 1100-3; Categories C,D, 1100-3.





NAME **ALTERNATE MINIMUMS**

WENO ISLAND, FM

CHUUK INTL NDB/DME Rwy 41 NDB or GPS-A1

NDB or GPS-B1 RNAV (GPS) Rwy 42

¹800-3.

²NA except standard for operators with approved weather reporting service.

YAP ISLAND, FM

YAP INTL NDB Rwy 251

NDB/DME Rwy 25²

¹Categories A,B, 900-2; Category C, 900-23/4; Category D, 900-3.

²Categories A,B, 900-2; Category C, 900-21/2; Category D, 900-234.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

INSTRUMENT APPROACH PROCEDURE CHARTS

FR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSI

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title: e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME

TAKE-OFF MINIMUMS

BABELTHUAP, KOROR, PS

BABELTHUAP/KOROR (ROR)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: Rwy 27, 400-1 or std. with a

min. climb of 296' per NM to 500.

DEPARTURE PROCEDURE: Rwv 9. climb runwav heading to 700 then as cleared.

GUAM. GQ

GUAM INTL (GUM)

ORIG -A 09071 (FAA)

TAKE-OFF MINIMUMS: Rwys 6L, 6R, 500-1 or std. with a min. climb 360' per NM to 800. Rwys 24L,24R,500-1 or std. with a min. climb of 300' per NM to 1400. DEPARTURE PROCEDURE: Rwys 6L, 6R, climb runway heading to 800 before turning. Rwys 24L, 24R

climb runway heading to 1400 before turning.

HANA, HI

HANA (HNM)

ORIG 05244 (FAA)

DEPARTURE PROCEDURE: Use LINDBERG DEPARTURE.

HILO, HI

HILO INTL (ITO)

AMDT 6 05356 (FAA)

DEPARTURE PROCÉDURE: Use PARIS DEPARTURE.

NAME HONOLULU. HI

TAKE-OFF MINIMUMS

HONOLULU INTL (HNL)

AMDT 7 85269 (FAA) DEPARTURE PROCEDURE: use HONOLULU

DEPARTURE. KAHULUI. HI

KAHULUI (OGG)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: Rwy 23, NA-ATC.

DEPARTURE PROCEDURE: Rwy 2, climb on a heading

between 310° CW to 053° from departure end of runway. Rwy 5, climb on a heading betwen 307° CW to 040° from departure end of runway. Rwy 20, climb on a heading of

185° from departure end of runway. NOTE: Rwy 2, bush/trees beginning 190' from departure end of runway, 362' left of centerline, up to 60' AGL/79'

MSL. Pipe on building 339' from departure end of runway, 289' right of centerline, 20' AGL/25' MSL. Bush beginning 902' from departure end of runway, 637' right of centerline, up to 20' AGL/39' MSL. Rwy 5, trees 2359' from departure end of runway, 512' left of centerline, 56' AGL/75' MSL. Fence beginning 20' from departure end of runway, 299' right of centerline, up to 7' AGL/31' MSL.

300' right of centerline, up to 76' AGL/95' MSL. Rwy 20, bush 22' from departure end of runway, 236' right of centerline, 2' AGL/55' MSL. Bush/trees beginning 24' from departure end of runway, 173' left of centerline, up to 29' AGL/68' MSL.

Bush/trees beginning 291' from departure end of runway,

TAKE-OFF MINIMUMS AND (ORSTACLE) DEPARTURE PROCEDURES

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES \overline{V}

KAILUA-KONA, HI

KONA INTI AT KEAHOLE

DEPARTURE PROCEDURE: Rwy 17, northwest-bound climb runway heading to 500 then climbing right turn to assigned route; eastbound climb runway heading to 500 them climbing right turn, heading 360°, to 2000, then climb via V3. Rwy 35, northwestbound climb runway heading to 500 then climbing left turn to assigned route; eastbound climb runway heading to 2000 then climb via V3.

KAMUELA, HI

WAIMEA-KOHALA (MUE)

AMDT 1 05076 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-2 or std. with a min. climb of 240' per NM to 3100.

DEPARTURE PROCEDURE: **Rwy 4**, climb via heading 041° to 3100 then climbing right turn via heading 080° and MUE VOR/DME R-057 to 6000 to VELLA INT, then as assigned. **Rwy 22**, climb via heading 233° and MUE VOR/DME R-234 to 5000 to JASON INT, then as assigned.

NOTE: Rwv 4, windsock 158' from departure end of runway, 299' right of centerline, 25' AGL/2702' MSL. Fence 2754' from departure end of runway, 323' right of centerline 12'AGI /2741'MSI Tree 5200'from departure end of runway, 179' right of centerline, 50' AGL/2817' MSL. Tree 5331' from departure end of runway, 110' left of centerline, 50' AGL/2829' MSL. Tree 1.3 NM from departure end of runway, 739' right of centerline, 50' AGL/2864' MSL. Tree 1.3 NM from departure end of runway, 1741' left of centerline, 50' AGL/2889' MSL. Antenna 1.8 NM from departure end of runway, 1094' left of centerline 152' AGL/2992' MSL. Rising terrain beginning 1.5 NM from departure end of runway, 3.9 NM left of centerline, up to 13796' MSL. Rwy 22, cactus at departure end of runway, 191'left of centerline, 10' AGL/2668' MSL. Tree at departure end of runway, 353' right of centerline, 50' AGL/2687' MSL. Bush 673' from departure end of runway, 186' left of centerline, 30' AGL/2673' MSL. Pole 1058' from departure end of runway, 124' left of centerline, 20' AGL/ 2683' MSL. Rapidly rising terrain beginning 1.5 NM from departure end of runway, 4209' left of centerline, up to 5513' MSL.

KAPOLEI, OAHUISLAND, HI

KALAELOA (JOHN RODGERS FIELD) (JRF) ORIG 09295 (FAA)

DEPARTURE PROCEDURE: DME Required. Rwys 4L, 4R, 11, climb heading 200° to intercept HNL VORTAC R-241 to GECKO/HNL 22.4 DME before proceeding on course. Rwys 22L, 22R, climb heading 224° to intercept HNL VORTAC R-241 to GECKO/HNL 22.4 DME before proceeding on course. Rwy 29, climb heading 210° to intercept HNL VORTAC R-241 to GECKO/HNL 22.4 DME before proceeding on course.

NOTE: Rwy 11, tree 1533' from DER, 831' left of centerline, 60' AGL/70' MSL. Rwy 22L, vehicles on road 305' from DER, 195' left of centerline, 15' AGL/26' MSL. Rwy 29, tree 1794' from DER, 573' left of centerline, 60' AGL/99' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES $\overline{\mathbf{V}}$

KAUNAKAKAI.HI

MOLOKAL(MKK)

AMDT 5 05300 (FAA)

TAKE-OFF MINIMUMS: Rwv 5, std. with a min. climb of 395' per NM to 1600 or 1900-21/2 for climb in visual conditions Rwy 23 std with a min_climb of 446' ner NM to 1600 or 1900-21/2 for climb in visual conditions Rwv 35. 200-1 or std. with a min. climb of 441' per NM to 800.

DEPARTURE PROCEDURE: Rwv 5, climb via heading 040° to 1500 then climbing left turn direct MKK VORTAC or climb in visual conditions to cross Molokai Airport southwestbound at or above 1800 via the MKK R-067 to MKK VORTAC, thence...

Rwy 17, climb via heading 169° to 1500 then climbing right turn direct MKK VORTAC, thence... Rwy 23, climbing left turn via heading 170° to 1700 then climbing right turn direct MKK VORTAC or climb in visual conditions to cross Molokai Airport southwestbound at or above 1800 via the MKK R-067 to MKK VORTAC

Rwv 35, climb via heading 349° to 1500 then climbing left turn direct MKK VORTAC, thence...

...climb in MKK VORTAC holding pattern (hold NE. right turn, 236° inbound) to cross MKK at or above MCA/MEA for route of flight

NOTE: Rwv 5, pole 2254 from departure end of runway. 222' right of centerline, 45' AGL/565' MSL, tree 1,12 NM from departure end of runway, 720' right of centerline, 50' AGL/675' MSL. Fenceline beginning 147' from departure end of runway, 177' left of centerline, up to 12' AGL/471' MSL. Multiple trees and bushes beginning 50' from departure end of runway, 273' left of centerline, up to 50' AGL/551' MSL. Obstruction light 1366' from departure end of runway, 79' right of centerline, 30'AGL/528' MSL. Multiple poles beginning 3065' from departure end of runway, 644' left of centerline, up to 45' AGL/623' MSL. Multiple trees beginning 4155' from departure end of runway, 184' right of centerline, up to 50' AGL/714' MSL. Rwy 23, tree 2,44 NM from departure end of runway, 747 right of centerline, 100' AGL/1264' MSL, Tree 2.82 NM from departure end of runway, 1753' right of centerline, 60' AGL/819 MSL. Tree 2.73 NM from departure end of runway, 2001' left of centerline, 60' AGL/919' MSL, Tree 2.03 NM from departure end of runway, 2006' left of centerline, 100' AGL/919' MSL. Pole 8021' from departure end of runway, 867' left of centerline, 42' AGL/ 642' MSL, Rwv 35, tree 2990' from departure end of runway, 1030' right of centerline, 50' AGL/648' MSL, Tree 3033' from departure end of runway, 740' right of centerline, 50' AGL/637' MSL. Tree 2497' from departure end of runway, 1106' right of centerline, 50' AGL/615' MSL. Tree 3835' from departure end of runway, 76' right of centerline, 50' AGL/620' MSL, Tree 3041' from departure end of runway, 728' right of centerline, 50' AGL/ 600' MSL, Tree 3569' from departure end of runway, 116' right of centerline, 50' AGL/596' MSL. Bush 28' from departure end of runway, 289' left of centerline, 15' AGL/ 461'MSL. Multiple bushes and trees 48' from departure end of runway, 48' right of centerline, up to 200' AGL/648' MSL. Multiple bushes and trees 28' from departure end of runway, 34' left of centerline up to 41' AGL/489' MSL. Multiple bushes beginning 107' from departure end of runway, 133' right of centerline, up to 15' AGL/492' MSL. Multiple bushes beginning 133' from departure end of runway, 43' left of centerline, up to 15' AGL/517' MSL. Road/vehicle 200' from departure end of runway, 62' right

of centerline, 15' AGL/487' MSL. Pole 1.32 NM from departure end of runway, 867' left of centerline, 42' AGL/

642'MSL.

KOSRAE, FM

KOSRAF (TTK)

ORIG-A 09071 (FAA)

CALITION: Ships with masts to 200' traverse harbor entrance located on west side of runway DEPARTURE PROCEDURE: Rwv 5, left turn, Rwv 23,

right turn, climb to 2000 or above before turning east

LANALCITY, HI

LANAL (LNY)

AMDT 5 09239(FAA)

TAKE-OFF MINIMUMS: Rwv 3, 400-1 or std. w/min. climb of 370' per NM to 2700 or 2500-3 for climb in visual.

DEPARTURE PROCEDURE: Rwv.3, climb heading 0.33° to 1720 before turning left. Climb heading 300° or 180° to intercept route or airway, then continue as cleared. Maintain maximum 210 kts until turn is completed or for climb in visual conditions cross LNY VORTAC eastbound at or above 3700 Rwy 21, climb heading 213° to assigned altitude Fastbound-climb westbound to cross LNY VORTAC eastbound at or above 2700 and climb as cleared Westbound - climb direct LNY VORTAC then via

NOTE: Rwv 3. multiple poles trees and terrain beginning 2108' from DER 1011' left of centerline up to 200' AGL/ 2202' MSL. Rwy 21, lighted windsock 8' from DER, 191' right of centerline, 30' AGL/1323' MSL,

LIHUE, HI

LIHUE (LIH)

AMDT 8 00279 (FAA)

TAKE-OFF MINIMUMS: Rwy 21, 2400-3. Use DIANE DEPARTURE PROCEDURE.

DEPARTURE PROCEDURE: Rwys 3, 35, to V15, climb runway heading to 500 then climbing right turn, heading 125°, then as assigned, Rwv 17, to V15, climb runway heading to 500 then climbing left turn, heading 045°, then as assigned. To LIH-150 climb runway heading to 500 then climbing left turn, heading 120°, then as assigned. Rwy 21, to V15, climb runway heading to 550 then climbing left turn, heading 090°, to intercept LIH R-110, maintain 5000. direct BOOKE INT or as assigned. To LIH-148. climb runway heading to 550, then climbing left turn, heading 120°, to intercept LIH R-148, maintain 3000, direct NAPUA INT or as assigned.

POHNPELISLAND, FM

POHNPEI INTL (PNI)

AMDT 2 80079 (FAA)

TAKE-OFF MINIMUMS: Rwys 9, 27, 400-11/2. DEPARTURE PROCEDURE: Rwv 9. climb runway heading

to 500 then left turn for north or west departure. Rwv 27. climb runway heading to 500 then right turn for north or east departure. Climb runway heading to 1500 before turning for south departure.

CAUTION: Ships with superstructure to 150', traverse Ponape channel, 400' off approach end of Rwy 9, closing airport at times.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES \overline{V}

SAIPAN, CQ

FRANCISCO C. ADA/SAIPAN INTL (GSN)

ORIG-A 09071 (FAA)

DEPARTURE PROCEDURE: Rwys 7,25, climb on runway heading to 1600 before climbing on course.

ROTA INTL (GRO)

AMDT 1A 09071 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 1000 before turning. **Rwy 27**, climb runway heading to 2000 or above before turning south.

TINIAN ISLAND, CQ

TINIAN INTL (TNI)

AMDT 1 09239 (FAA)

NOTE: Rwy 8, trees beginning 694' from DER, 507' left of centerline, up to 100' AGL/363' MSL. Multiple trees beginning 569' from DER, 471' right of centerline, up to 100' AGL/389' MSL. Rwy 26, multiple trees beginning 743' from DER, 508' right of centerline, up to 100' AGL/363' MSL.

TUTUILA, AQ

PAGO PAGO INTL (PPG)

ORIG-A 09071 (FAA)
TAKE-OFF MINIMUMS: Rwv 23. std. w/min. climb of

320' per NM to 800, or 2700-3 for climb in visual conditions. **Rwy 26**, NA-obstacles. DEPARTURE PROCEDURE: **Rwys 5**, **8**, climbing

right turn southbound between TUT R-090 clockwise to R-180 to 2800, then proceed on course. **Rwy 23**, climbing left turn heading 150° southbound between

TUT R-090 clockwise to R-180 to 2800, then proceed on course. For climb in visual conditions: cross Pago Pago Intl Airport at or above 2600 before proceeding on

course.

NOTE: Rwy 5, bush 1' from departure end of runway,
237' right of centerline, 3' AGL/12' MSL. Bush 379'

from departure end of runway, 362' left of centerline, 14' AGL/23' MSL. Ship 998' from departure end of runway, 57' right of centerline, 150' AGL/150' MSL. **Rwy 8**, bush 689' from departure end of runway, 360' left of

centelrine, 15' AGL/23' MSL. Ship 1435' from departure end of runway, 304' left of centerline, 150' AGL/150' MSL. **Rwy 23**, multiple trees beginning 352' from departure end of runway, 173' left of centerline, up

to 20' AGL/132' MSL. Multiple trees beginning 881' from departure end of runway, 296' right of centerline, up to 20' AGL/172' MSL. Multiple trees and poles beginning 1.6 NM from departure end of runway, 38' right of centerline, up to 367' AGL/554' MSL. Tree 2.3 NM from departure end of runway, 2126' left of

WENO ISLAND, FM

centerline, 20' AGL/387' MSL.

CHUUK INTL (TKK)

AMDT 1 82189 (FAA)
DEPARTURE PROCEDURE: Rwy 4, climb on runway

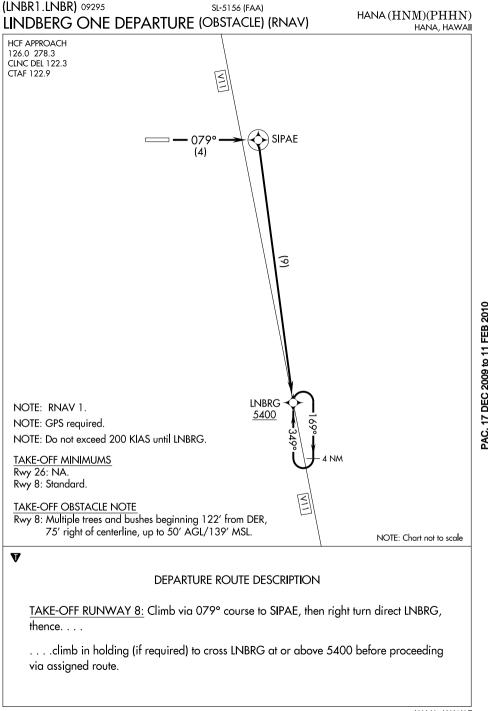
heading to 800 before turning right. Rwy 22, climb on runway heading to 1200 before turning left. CAUTION: Ships with superstructure to 150' traverse channels west of runway 4/22.

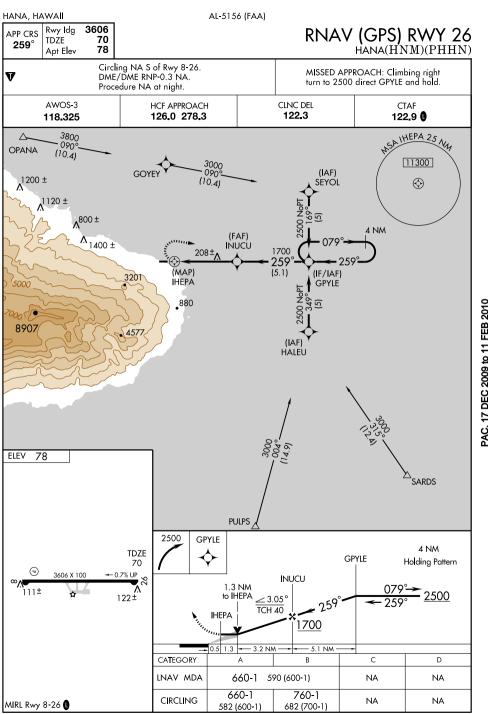
YAP ISLAND, FM

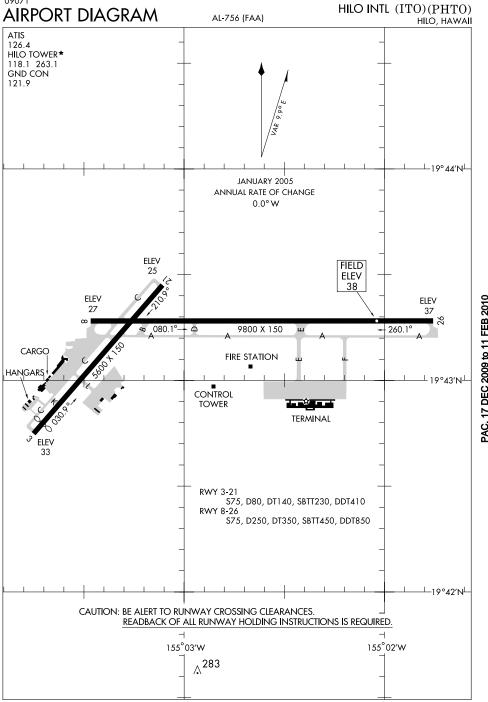
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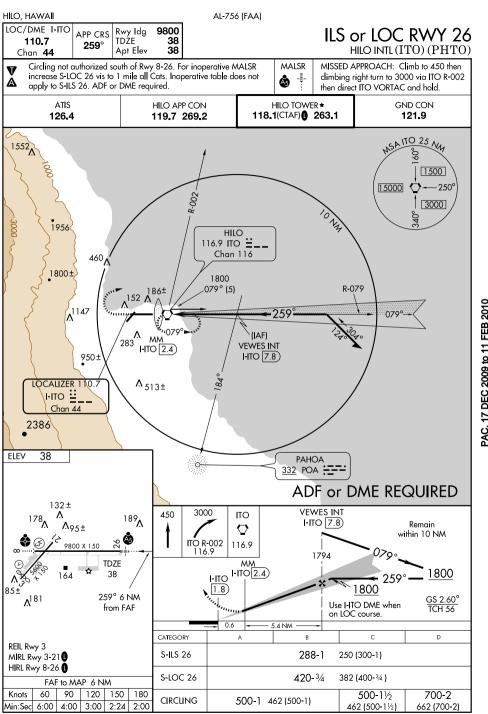
AMDT 2 94342 (FAA)

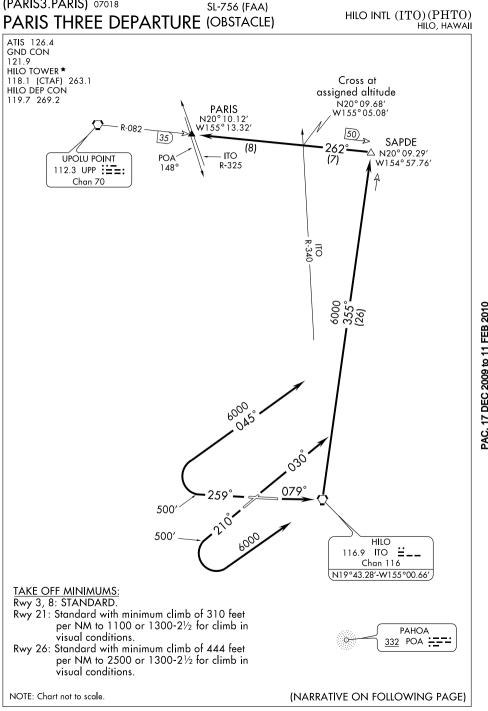
DEPARTURE PROCEDURE: **Rwys 7**, climbing right turn to 1500 via 090° bearing from YP NDB/DME, then climb on course. **Rwy 25**, climb to 500, then climb on course.











HILO INTL (ITO) (PHTO) HÍLÒ, HAWAIÍ



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb via heading 030° to intercept ITO R-355 to 6000' to SAPDE INT Thence.... TAKE-OFF RUNWAY 8: Climb via heading 079° to ITO VORTAC and ITO R-355

to 6000' to SAPDE INT. Thence....

TAKE-OFF RUNWAY 21: Climb via heading 210° to 500', then climbing left turn to 6000' direct ITO VORTAC and ITO R-355 to SAPDE, or climb in visual conditions to cross DER eastbound at or above 1200' MSL before proceeding

on course. Thence.... TAKE-OFF RUNWAY 26: Climb via heading 259° to 500', then climbing right turn to 6000' via heading 045' to intercept ITO R-355 to SAPDE, or climb in visual conditions to cross DER eastbound at or above 1200' MSL before

proceeding on course. Thence....Proceed via UPP R-082 to PARIS INT. Cross ITO R-340 at assigned altitude.

TAKE-OFF OBSTACLE NOTES: Rwy 3: Tree 325' from DER, 432' right of centerline, 40' AGL/80' MSL.

Windsock 395' from DER, 307' left of centerline, 25' AGL/43' MSL.

Multiple trees beginning 1107' from DER, 360' left of centerline to 2210' from DER, 418' right of centerline, up to 50' AGL/115' MSL. Antenna 1255' from DER, 68' left of centerline, 50' AGL/77' MSL.

Rwy 8: Tree 415' from DER, 495' right of centerline, 40' AGL/61' MSL.

Tree 865' from DER, 589' right of centerline, 40' AGL/73' MSL. Tree 1317' from DER, 329' right of centerline, 40' AGL/79' MSL.

Rwy 21: Road/Vehicle 235' from DER, 261' left of centerline, 15' AGL/73' MSL.

Pole 557' from DER, 409' right of centerline, 40' AGL/66' MSL. Pole 1.86 NM from DER, 3295' right of centerline, 80' AGL/362' MSL.

Tree 1.98 NM from DER, 1388' left of centerline, 80' AGL/427' MSL.

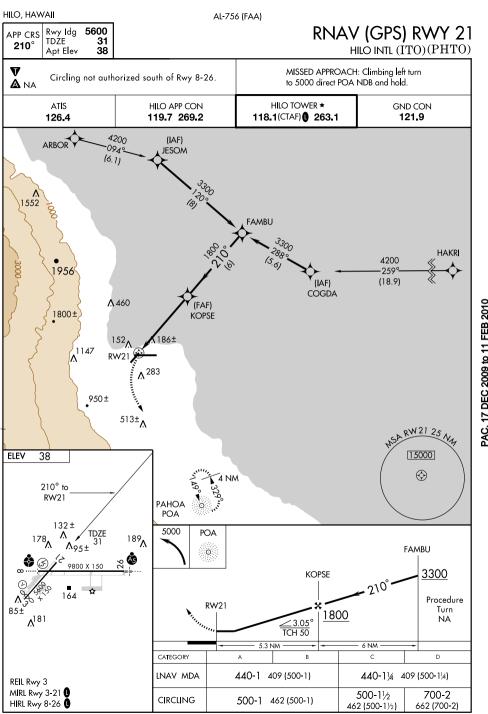
Tree 2.29 NM from DER, 775' left of centerline, 60' AGL/479' MSL. Tree 2.28 NM from DER, 1176' right of centerline, 60' AGL/514' MSL. Pole 2 NM from DER, 1821' left of centerline, 60' AGL/398' MSL.

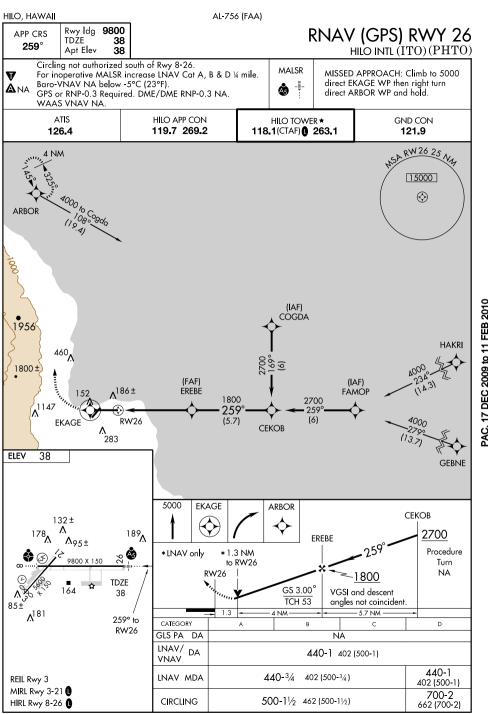
Tree 1.24 NM from DER, 266' left of centerline, 80' AGL/236' MSL. Pole 1.83 NM from DER, 1185' left of centerline, 80' AGL/327' MSL.

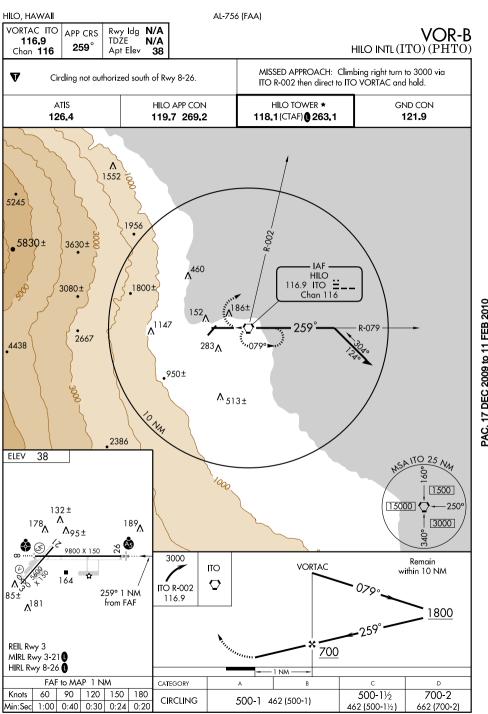
Rwy 26: Windsock at DER, 269' right of centerline, 25' AGL/46' MSL. Road/Vehicle at DER, 455' right of centerline, 15' AGL/54' MSL.

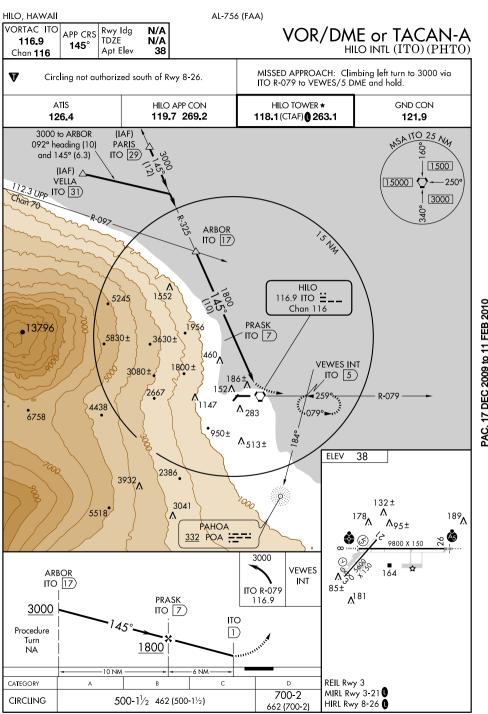
Light Pole 548' from DER, 582' right of centerline, 30' AGL/58' MSL. Tree 1107' from DER, 582' left of centerline, 50' AGL/81' MSL.

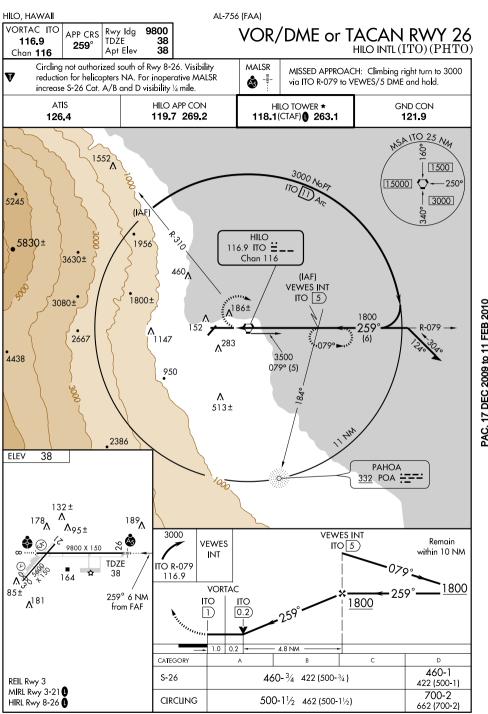
Tree 1318' from DER, 471' left of centerline, 50' AGL/92' MSL.

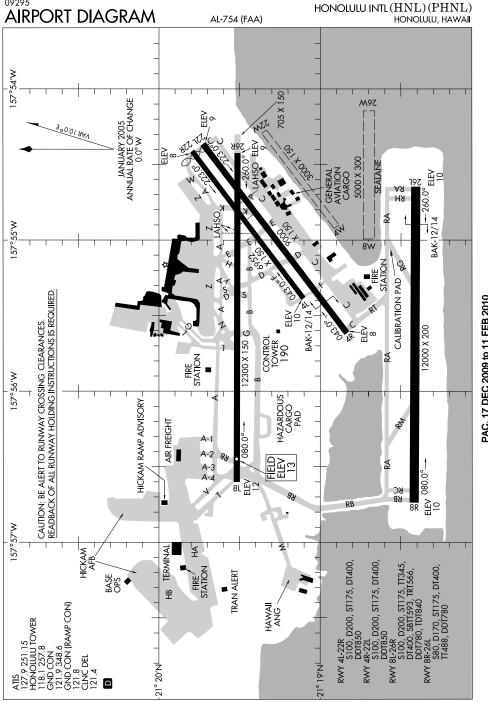


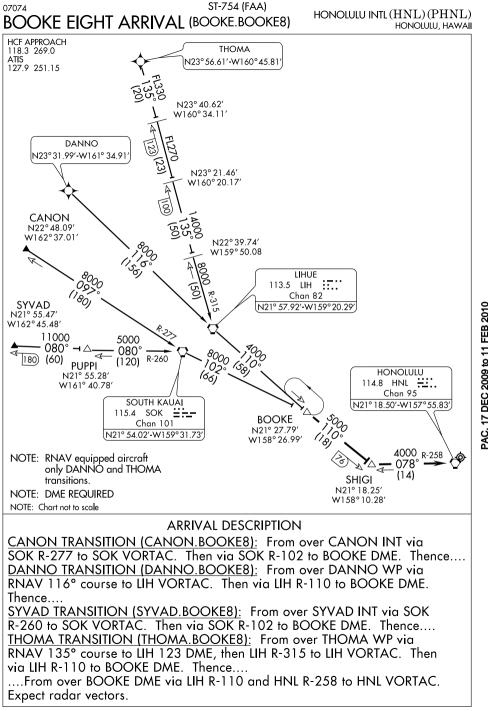


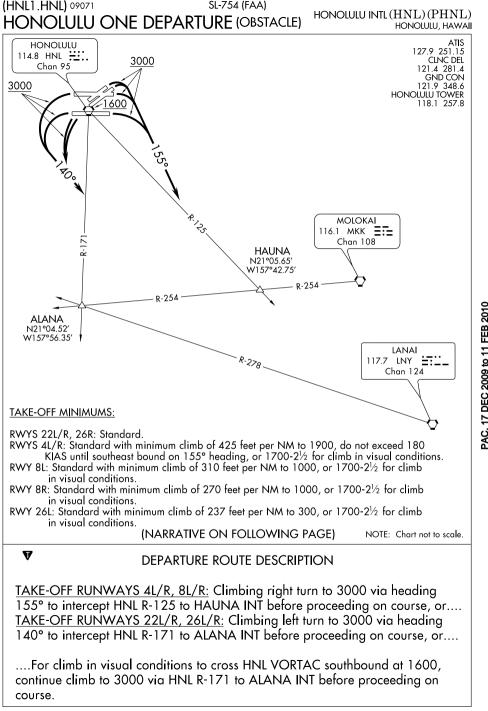












HONOLULU INTL (HNL) (PHNL) HONOLULU, HAWAII centerline, 102 feet right of centerline, up to 84 feet AGL/92 feet MSL. Light on

PAC. 17 DEC 2009 to 11 FFB 2010

HONOLULU ONE DEPARTURE (OBSTACLE)

RWY 4L: Multiple lights beginning 630 feet from DER, 236 feet left of

TAKE-OFF OBSTACLE NOTES:

(HNL1.HNL) 09071

bldg 669 feet from DER, 394 feet left of centerline, 29 feet AGL/37 feet MSL. Stack on bldg 2,488 feet from DER, 219 feet right of centerline, 72 feet AGL/80 feet MSL. Multiple trees beginning 1,253 feet from DER, 209 feet left

SL-754 (FAA)

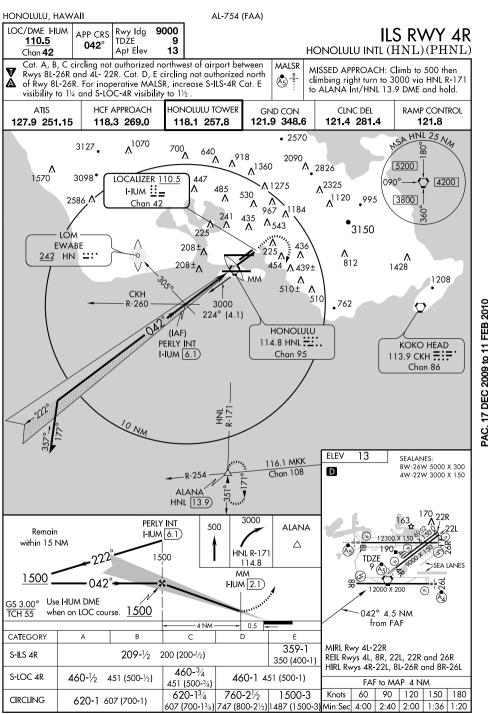
of centerline, 935 feet right of centerline, up to 64 feet AGL/72 feet MSL. Bush 450 feet from DER, 234 feet left of centerline, 14 feet AGL/22 feet MSL.

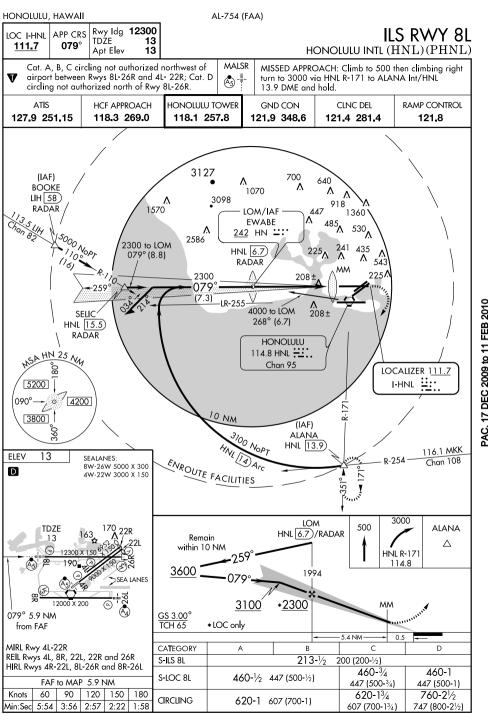
RWY 4R: Stack on bldg, 2,442 feet from DER, 283 feet left of centerline, 72 feet AGL/80 feet MSL. Multiple trees beginning 1,206 feet from DER, 711 feet left of centerline, 433 feet right of centerline, up to 64 feet AGL/72 feet MSL. Multiple lights beginning 1.072 feet from DER, 399 feet left of centerline. 504 feet right of centerline, up to 36 feet AGL/44 feet MSL. Pole 2,110 feet from DER, 951 feet left of centerline, 59 feet AGL/67 feet MSL.

RWY 22L: Multiple bushes beginning 265 feet from DER, 396 feet right of centerline, 17 feet AGL/31 feet MSL. Tree 1,065 feet from DER, 499 feet right of centerline, 30 feet AGL/38 feet MSL. RWY 22R: Rod on OL ASR 1,451 feet from DER, 827 feet right of

centerline, 76 feet AGL/84 feet MSL. Tree 853 feet from DER, 308 feet right of centerline, 43 feet AGL/51 feet MSL.

RWY 26L: Ship 6,683 feet from DER, on centerline, 208 feet AGL/208 feet MSL





maintain 4000 feet.

2010

PAC 17 DEC 2009 to 11 FEB

07074 SL-754 (FAA) HONOLULU INTL (HNL) (PHNL) KEAHI THREE DEPARTURE (KEAHI3.KEAHI) HONOLULU, HAWAII ATIS 127.9 251.15 CINC DEL 121.4 281.4 HONOLULU MOLOKAI **GND CON** 114.8 HNL <u>∺</u>∷. 116.1 MKK =:-121.9 348.6 Chan 95 Chan 108 HONOLULU TOWER 118.1 257.8 HCF APPROACH NORTH 119.1 239.05 EAST 124.8 317.6 WEST 118.3 269.0 (SETZO) N20° 47.09′ LANAI W157°23.63′ 117.7 LNY Chan 124 5000 5000 R-262 N20°45.87′-W156°58.13′ .082° 082 KEAHI 36) (12) (24)4.739° N20° 47.68′ W157°36.14' 8 **JORDA** N20° 39.58′ W157° 15.97′ 10000 185j R-278 UPOLU POINT 112.3 UPP :==: Chan 70

NOTE: Chart not to scale.

V

(HNL 3 DME).

NOTE: Departures from Runways 26L/R must complete left turn to assigned heading within 2 NM of runway departure end

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 22/26 ONLY: Turn left to heading assigned by tower, expect radar vectors to intercept HNL R-138; then via HNL R-138 to KEAHI INT, maintain 5000'; then via (transition). Expect clearance to enroute altitude/flight level at JORDA INT or LNY VORTAC. JORDA TRANSITION (KEAHI3.JORDA): From over KEAHI INT via LNY R-262

and HNL R-125 to JORDA INT.
LANAI TRANSITION (KEAHI3.LNY): From over KEAHI INT via LNY R-262 to

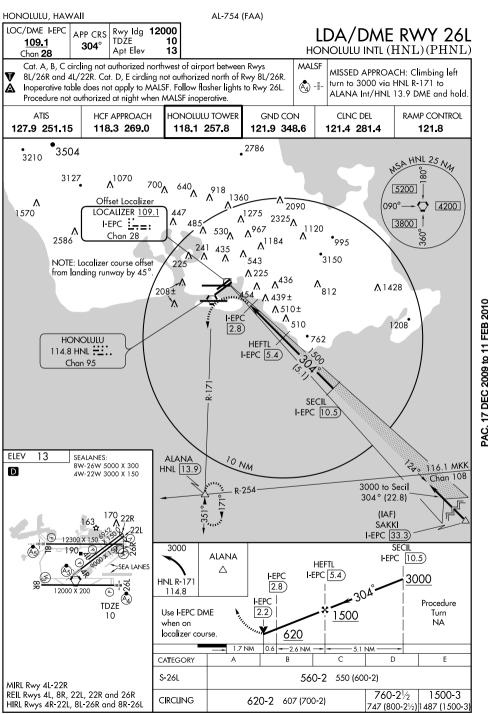
LNY VORTAC.

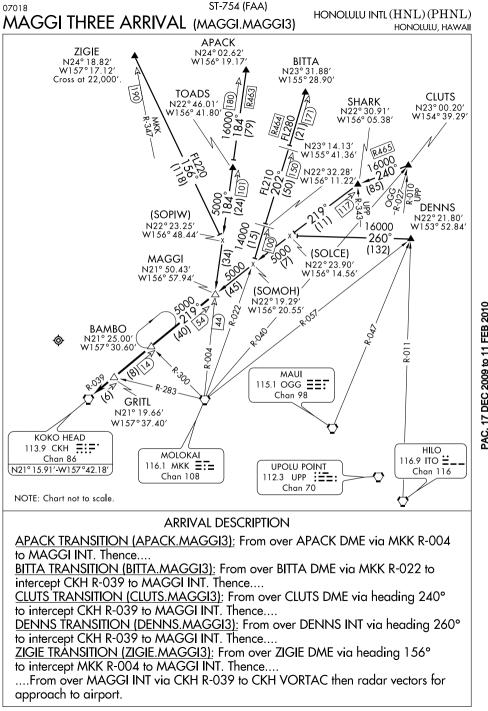
<u>UPOLU TRANSITION (KEAHI3.UPP)</u>: From over KEAHI INT via LNY R-262 and HNL R-125 to JORDA INT, thence via UPP R-278 to UPP VORTAC.

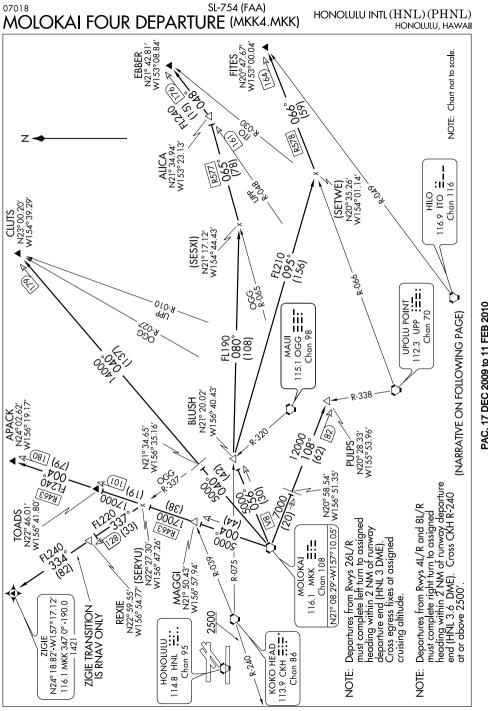
PAC. 17 DEC 2009 to 11 FEB 2010

N20° 12.03′-W155° 50.60′

07186 **KEOL** SL-754 (FAA) HONOLULU INTL (HNL) (PHNL) **DFPARTURE** (KEOLA2.KEOLA) HONOĹUĽU. HAWAÍI NOTE: Chart not to scale. of departure end of runway (HNL 3.6 DME). Cross CKH 113.9 CKH ... Honolulu departures from Rwys 4L/R and 8L/R must complete right turn to assigned heading within 2 NM **KOKO HEAD** Chan 86 114.8 HNL 2 NM of departure end of runway (HNL 3 DME) Honolulu departures from Rwys 26L/R left turn to assigned heading must be completed within HONOLULU Chan 95 R-240 at or above 2500′. 2500 R-258 W158°29.43′ N21°17.89′ IHUE TRANSITION (KEOLA2.LIH): Via SOK R-111 and LIH R-148 to LIH VORTAC. KATHS TRANSITION (KEOLA2.KATHS): Via HNL R-258 and SOK R-234 to KATHS KEOLA maintain 5000'; then via transitions. Expect clearance to enroute altitude/flight SOUTH KAUAI TRANSITION (KEOLA2.SOK): Via SOK R-111 to SOK VORTAC. NOTE NOTE Turn right/left to heading assigned by the Tower, expect vectors to KEOLA INT, N21°57.92′-W159°20.29′ W158°51.55' N21°30.78′ 113.5 UH :::: PAC. 17 DEC 2009 to 11 FFB 2010 GRAIL PUPPI TRANSITION (KEOLA2.PUPPI): Via RNAV course 271° to PUPPI WP. Chan 82 JONNI TRANSITION (KEOLAZ.NONNI): Via HNL R-258 to NONNI INT ILIA TRANSITION (KEOLA2.LILIA); Via RNAV course 282° to LILIA WP. JHI1 16000 258° -(69) 4000 328 (15) R-148 V21°44.18' 712 9 W159°14.64′ NAPUA DEPARTURE ROUTE DESCRIPTION W159°42.88′ N21°16.16′ 27700 2770 N21°54.02'-W159°31.73' 115.4 SOK ##__ SOUTH KAUAL Chan 101 FL290 258° · (75) N22°30.46′-W161°34.99′ 115.4 SOK 277.0°-120.0 175) KATHS N21°04.62′ W161°23.18′ HIA -630eve at KEOLA INT. N21°55.28′-W161°40.78′ 115.4 SOK 260.0°-120.0 PUPP 630-W161°02.99′ N21°13.71′ Z N O P z







HONOLULU, HAWAII



DEPARTURE ROUTE DESCRIPTION

Turn right/left to heading as assigned by Tower, expect vectors to MKK VORTAC, maintain 5000'; then via (transition). Expect clearance to enroute altitude/flight level at MKK VORTAC. Cross egress fixes ZIGIE, APACK, CLUTS, EBBER, and FITES at assigned cruising altitude, unless otherwise advised by ATC. APACK TRANSITION (MKK4.APACK): From over MKK VORTAC via MKK R-004 to APACK INT.

CLUTS TRANSITION (MKK4.CLUTS): From over MKK VORTAC via MKK R-040 to CLUTS INT.

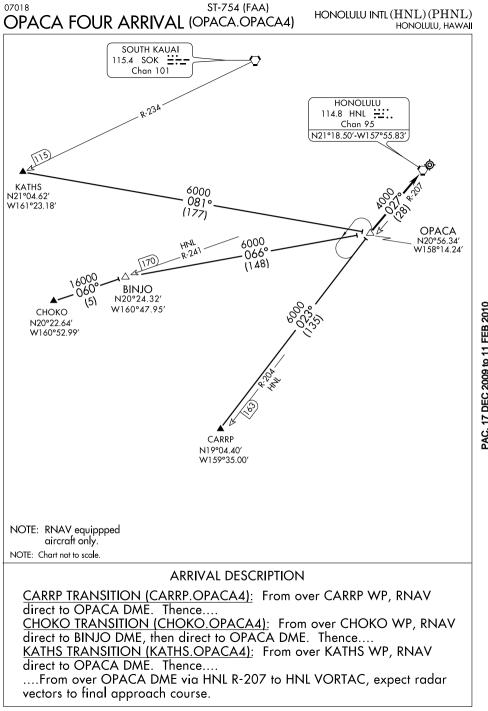
EBBER TRANSITION (MKK4.EBBER): From over MKK VORTAC via MKK R-056 to BLUSH INT then via 080° heading and R577 to EBBER INT. FITES TRANSITION (MKK4.FITES): From over MKK VORTAC via MKK R-056 to

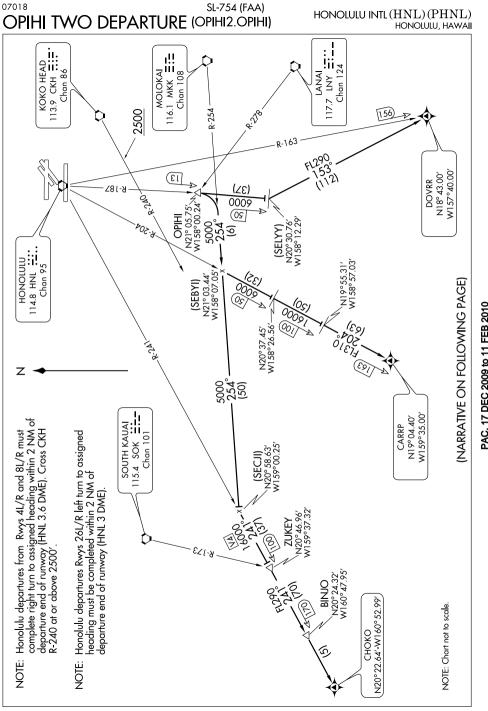
BLUSH INT then via 095° heading and R578 to FITES INT. PULPS TRANSITION (MKK4.PULPS): From over MKK VORTAC via MKK R-108 to

PULPS INT.

ZIGIE TRANSITION (MKK4.ZIGIE): From over MKK VORTAC via MKK R-004 to intercept and proceed via OGG R-337 to REXIE DME. Then via RNAV heading 334° to ZIGIE WP.

PAC. 17 DEC 2009 to 11 FFB 2010





V

DEPARTURE ROUTE DESCRIPTION

Turn right/left to heading assigned by tower, expect vectors to OPIHI INT, maintain 5000'; then via (transition). Expect clearance to enroute altitude/flight level at OPIHI INT. CARRP TRANSITION (OPIHI2.CARRP): From over OPIHI INT via right turn to intercept MKK R-254 to HNL R-204, then via HNL R-204 to HNL 100 DME, then via course 204° to CARRP WP. CHOKO TRANSITION (OPIHI2.CHOKO): From over OPIHI INT via right turn to

intercept MKK R-254 to HNL R-241 to BINJO DME, then via course 241° to CHOKO WP.

DOVRR TRANSITION (OPIHI2.DOVRR): From over OPIHI INT via HNL R-187 to HNL 50 DME, then via left turn heading 153° RNAV course to DOVRR WP.

07074 SL-754 (FAA) HONOLULU INTL (HNL) (PHNL) PALAY TWO DEPARTURE (PALAY2.PALAY) HONOLULU, HAWAII ATIS 127.9 251.15 CLNC DEL 121.4 281.4 HONOLULU GND CON 114.8 HNL <u>∺</u>∷ 121.9 348.6 Chan 95 HONOLULU TOWER 118.1 257.8 HCF APPROACH KOKO HEAD NORTH 119.1 239.05 113.9 CKH =:= EAST 124.8 317.6 Chan 86 WEST 118.3 269.0 MOLOKAI 116.1 MKK =:= Chan 108 2500 N21° 08.29′-W157° 10.05′ LOKIE N21° 07.44′ V8 W157°20.70′ R-254 4000 23) 074° (10)(13)**PALAY** N21° 06.35′ W157° 34.22′ **ROSHE** LANAI NOTE: Departures from Runways N20°55.60′ W157°15.23′ 117.7 LNY 4L/R and 8L/R must complete Chan 124 right turn to assigned heading within 2 NM of runway departure end (HNL 3.6 DME). Cross CKH V20°45.87′-W156°58.13′ R-240 at or above 2500'. Departures from Runways 26L/R must complete left turn to assigned heading within 2 NM of runway departure end (HNL 3 DME). NOTE: Chart not to scale. V DEPARTURE ROUTE DESCRIPTION

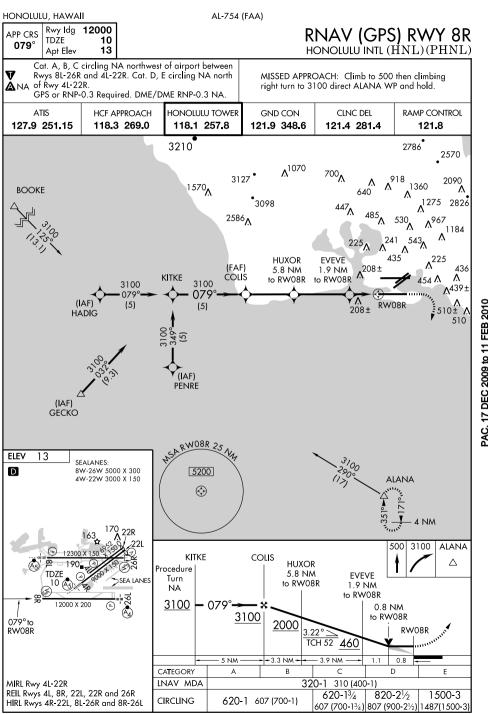
PAC. 17 DEC 2009 to 11 FFB 2010

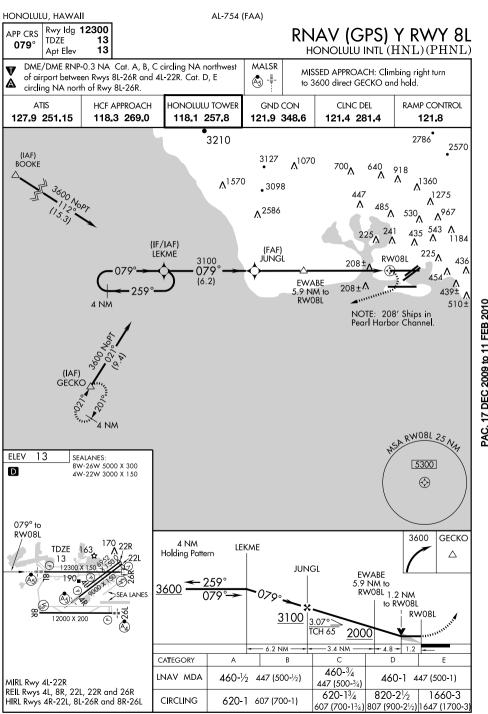
Turn right/left to heading as assigned by tower, expect vectors to PALAY INT, maintain 5000'; then via (transition). Expect clearance to enroute altitude/flight level at LNY VORTAC.
LANAI TRANSITION (PALAY2.LNY): From over PALAY INT via HNL R-110 and

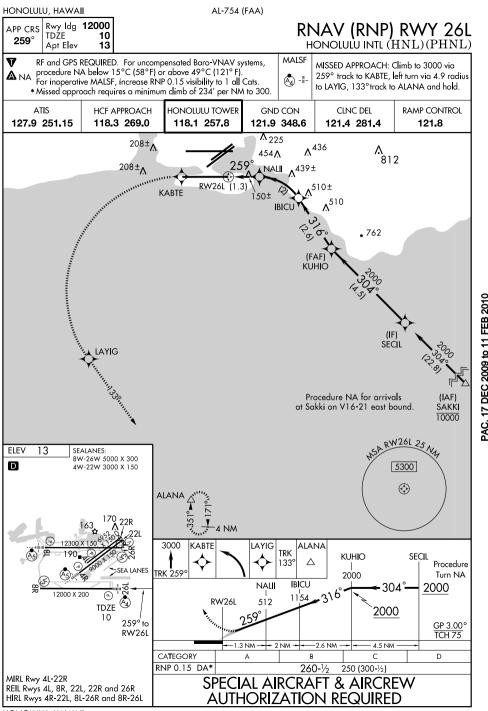
LNY R-290 to LNY VORTAC.

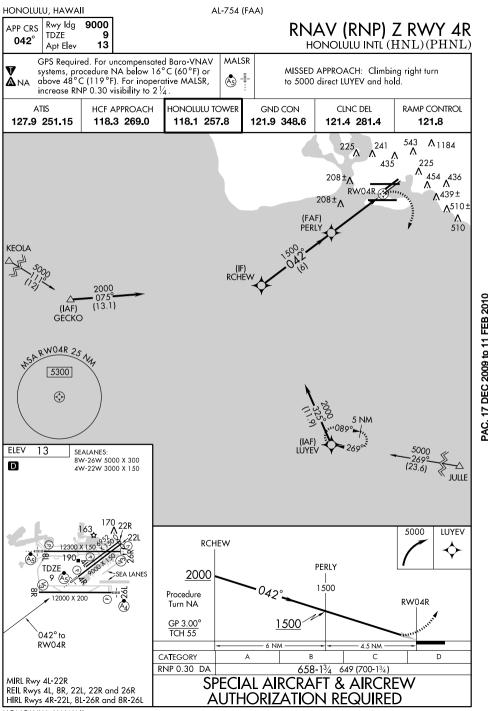
MOLOKAI TRANSITION (PALAY2.MKK): From over PALAY INT via MKK R-254 to MKK VORTAC.

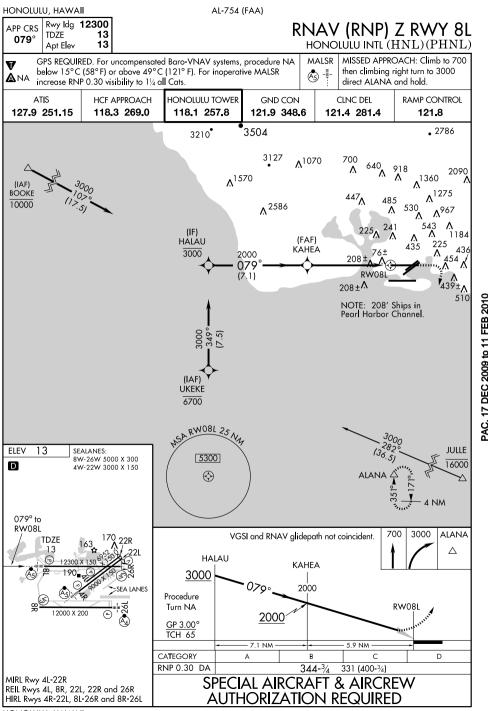
to MKK VORTAC.

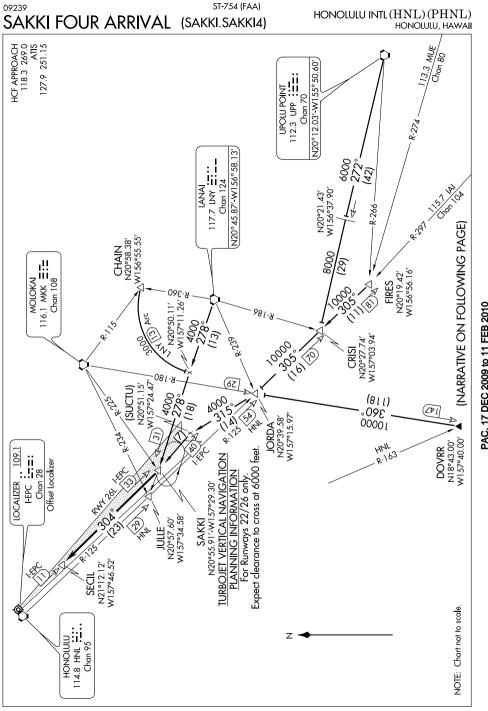












ARRIVAL DESCRIPTION

Arc to intercept LNY R-278 to SAKKI INT. Thence.... DOVRR TRANSITION (DOVRR.SAKKI4): From over DOVRR INT via MKK R-180 to JORDA INT, left turn heading 315° to join I-EPC LDA course at 40 DME to SAKKI INT. Thence.... FIRES TRANSITION (FIRES.SAKKI4): From over FIRES INT via HNL R-125 to

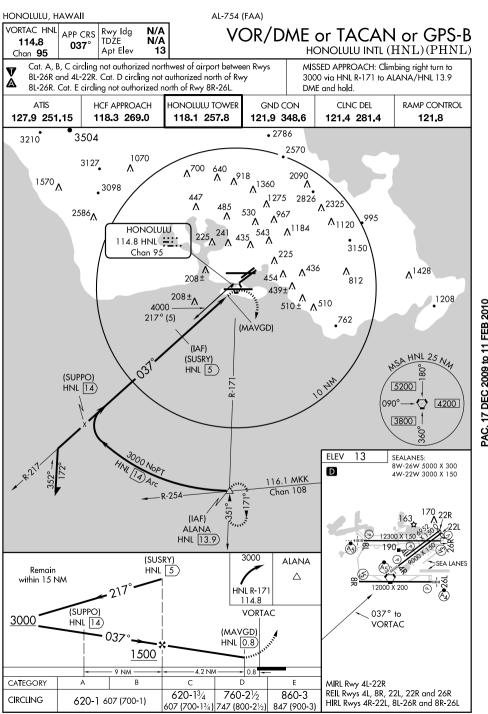
CHAIN TRANSITION (CHAIN.SAKKI4): From over CHAIN INT via LNY 13 DME

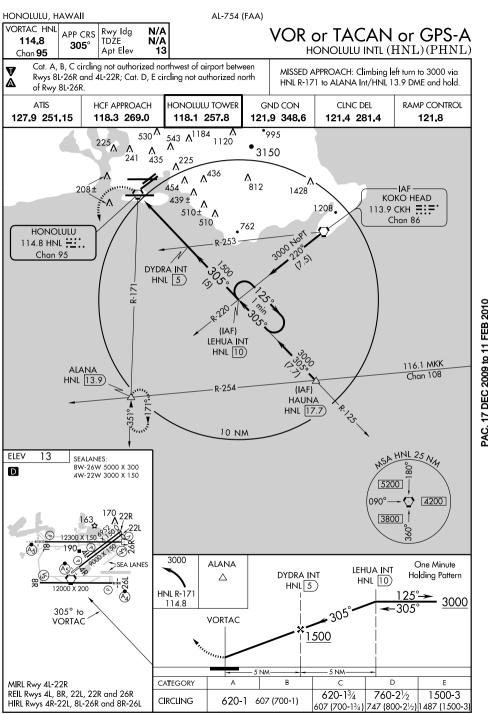
JORDA INT, right turn heading 315° to join I-EPC LDA course at 40 DME to SAKKI INT. Thence.... LANAI TRANSITION (LNY.SAKKI4): From over LNY VORTAC via LNY R-278 to

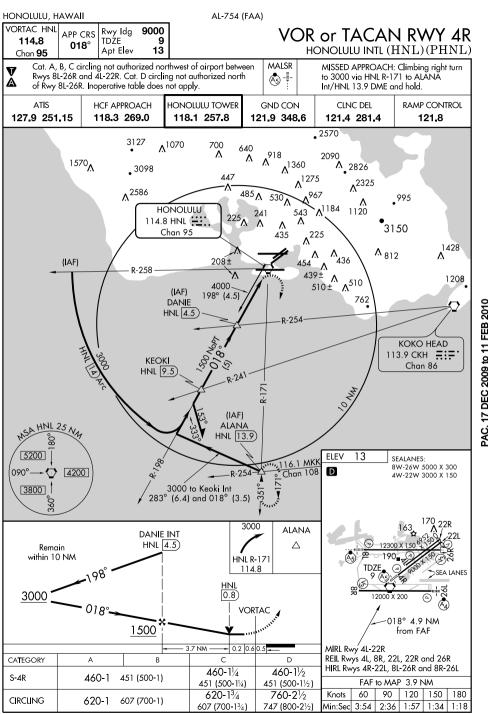
SAKKI INT. Thence.... UPOLU TRANSITION (UPP.SAKKI4): From over UPP VORTAC via UPP R-272 and HNL R-125 to JORDA INT, right turn heading 315° to join I-EPC LDA course at 40 DME to SAKKI INT. Thence....

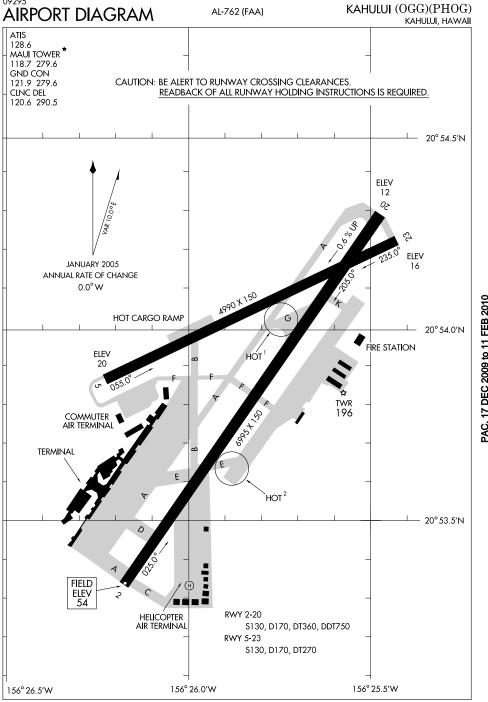
....For Runways 22/26 only: From over SAKKI INT via the LDA/DME Runway

26L course to SECIL DME.









Rwy 20: Standard with minimum climb of 480 feet per NM to 2100.

KAHULUI (OGG)(PHOG)

BARBY ONE DEPARTURE KAHULUI, HAWAII TAKE-OFF MINIMUMS: Rwy 23: NA Obstacle and ATC. Rwy 2: Standard with ATC climb of 480 feet per NM to 2200.

Rwy 5: Standard with ATC climb of 480 feet per NM to 2900.

118.7 (CTAF) 279.6 MAUI DEP CON NORTH 120.2 322.4

(BARBY I .BARBY) 09015

ATIS 128.6

120.6 290.5

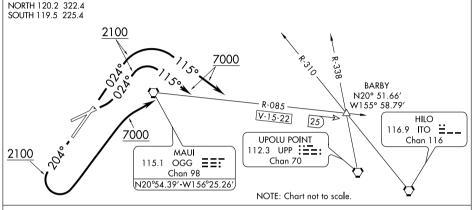
121.9 279.6 MAUI TOWER *

CLNC DEL

GND CON

V

SOUTH 119.5 225.4 HCF APPROACH



SL-762 (FAA)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 024° to 2100 then climbing right turn to 7000 via heading 115° to intercept OGG VORTAC R-085 (V15-22) to BARBY INT/OGG 25 DME.

TAKEOFF RUNWAY 5: Climbing left turn heading 024° to 2100 then climbing right turn to 7000 via heading 115° to intercept OGG VORTAC R-085

(V15-22) to BARBY INT/OGG 25 DME. TAKEOFF RUNWAY 20: Climb heading 204° to 2100 then climbing left turn

to 7000 direct OGG VORTAC then via OGG R-085 (V15-22) to BARBY INT OGG 25 DME.

TAKEOFF OBSTACLE NOTES:

feet MSL.

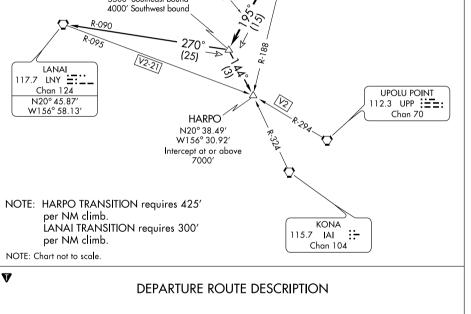
Rwy 2: Bush/trees beginning 190 feet from DER, 362 feet left of centerline, up to 60 feet AGL/79 feet MSL. Pipe on building 339 feet from DER, 289 feet right of centerline, 20 feet AGL/25 feet MSL. Bush beginning 902 feet from DER, 637 feet right of centerline, up to 20 feet AGL/39 feet MSL.

Rwy 5: Trees 2,359 feet from DER, 512 feet left of centerline, 56 feet AGL/75 feet MSL. Fence beginning 20 feet from DER, 299 feet right of centerline, up to 7 feet AGL/31 feet MSL. Bush/trees beginning 291 feet from DER, 300 feet right of centerline, up to 76 feet AGL/95

Rwy 20: Bush 22 feet from DER, 236 feet right of centerline, 2 feet AGL/55 feet MSL. Bush/trees beginning 24 feet from DER, 173 feet left of centerline, up to 29 feet AGL/68 feet MSL.

(BEACH2.BEACH) 07074 SL-762 (FAA) KAHULUI (OGG)(PHOG) **BEACH TWO DEPARTURE** KAHÚLÙI. HAWAÍI ATIS 128.6 CLNC DEL 120.6 290.5 GND CON MAUI 121.9 279.6 115.1 OGG ==: MAULTOWER ★ Chan 98 118.7 (CTAF) 279.6 HCF APPROACH 119.5 225.4 Rwy 20 **BFACH** N20°41.08′ W156° 32.15′ Cross at or above All Rwys 5500' Southeast bound



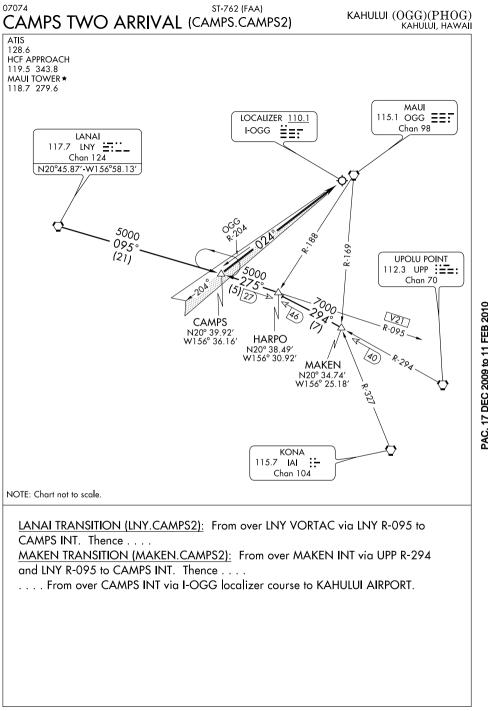


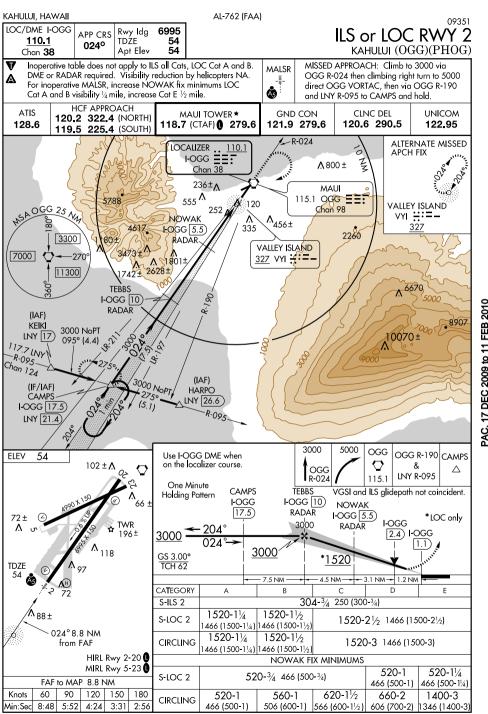
TAKE-OFF RUNWAYS 2, 5, AND 23: Maintain flight in visual conditions until intercepting the OGG R-195, then climb southbound via the OGG R-195 to BEACH INT.

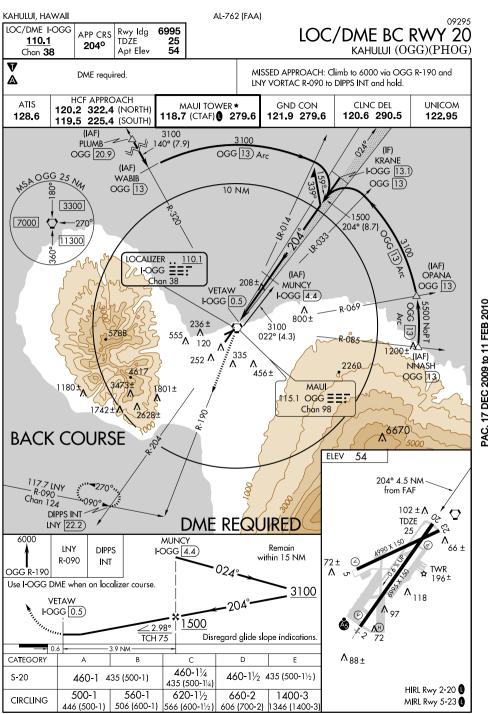
TAKE-OFF RUNWAY 20: Turn left to intercept the OGG R-195, then climb southbound via the OGG R-195 to BEACH INT.

HARPO TRANSITION (BEACH2.HARPO): Cross BEACH INT at or above 5500', turn left, continue to climb southbound via IAI R-324 to intercept V2 at or above 7000'.

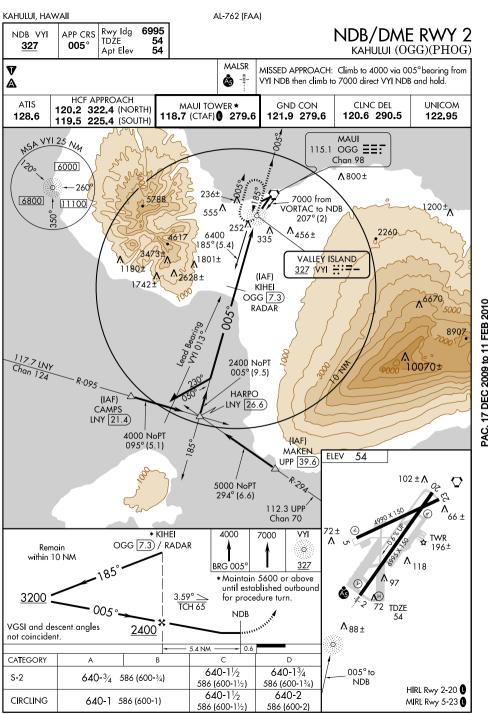
LANAI TRANSITION (BEACH2.LNY): Cross BEACH INT at or above 4000', turn right, continue climb to 5000' or above via LNY R-090 to LNY VORTAC.

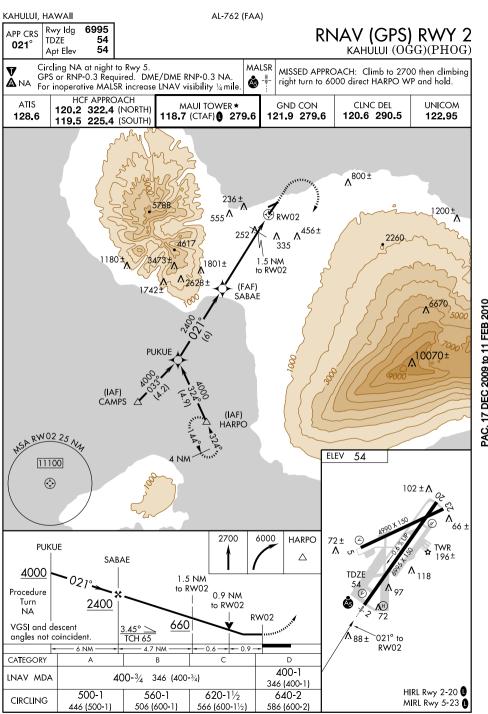


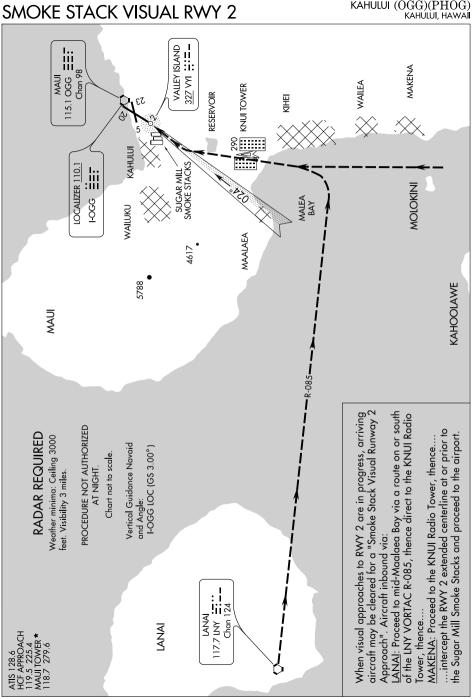




(MAUI5.OGG) 07074 SL-762 (FAA) KAHULUI (OGG)(PHOG) MAUI FIVE DEPARTURE KAHÚLÙI. HAWAÍI ATIS 128.6 CLNC DEL 120.6 290.5 GND CON 121.9 279.6 MAUI TOWER * 118.7 (CTAF) 279.6 HCF APPROACH 120.2 322.4 MOLOKAL 116.1 MKK =:= Chan 108 3500 R-097. **LORET** N20° 59.45′ N156° 41.48′ 6700 Cross at assigned altitude. When assigned above 14,000', cross at or above 14,000'. MAU 115.1 OGG **==**: Chan 98 N20°54.39′-W156°25.26′ LANAI 117.7 LNY Chan 124 N20°45.87′-W156°58.13′ NOTE: Take-off requires minimum climb of 420' per NM until reaching 8000'. NOTE: Chart not to scale. V DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAYS 2 AND 5 ONLY: After take-off, all aircraft fly heading 360°, expect radar vectors west of Maui Island to assigned fix/route. Cross the LNY R-322 at assigned altitude. When assigned above 14,000', cross at or above 14.000'. LOST COMMUNICATIONS: If not in contact with Departure Control 1 minute after crossing the shoreline, climb northbound via the OGG R-010 until reaching at least 3500'. Then reverse course to the right direct OGG VORTAC. Then via V24 to LNY VORTAC. Cross OGG VORTAC at or above 6700'.







PAC. 17 DEC 2009 to 11 FEB 2010

KAHULUI (OGG)(PHOG)

SWEEP

KAHULUI, HAWAII

ATIS 128.6 TAKE-OFF MINIMUMS: CLNC DEL 120.6 290.5 Rwy 23: NA Obstacle and ATC. GND CON Rwy 2,5: Standard with ATC climb of 480 feet per NM to 2100. 121.9 279.6 Rwy 20: Standard with minimum climb of 480 feet per NM to 2100. MAUI TOWER *

SL-762 (FAA)

118.7 (CTAF) 279.6

MAUI DEP CON NORTH 120.2 322.4 SOUTH 119.5 225.4

(SWEEP1.SWEEP) 09015

SWEEP ONE DEPARTURE

HCF APPROACH NORTH 120.2 322.4 SOUTH 119.5 225.4 2100

N20° 58.50 W156° 00.21 6000 V-11 0950 R-069 0950 MAUI 6000 UPOLU POINT 115.1 OGG **ΞΞ:** 2100 112.3 UPP :== Chan 98 Chan 70 N20°54.39′-W156°25.26′ NOTE: Chart not to scale. V DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 024° to 2100 then climbing right turn to 6000 via heading 095° to intercept OGG VORTAC R-069 (V11) to SWEEP INT/OGG 24 DME. TAKEOFF RUNWAY 5: Climbing left turn heading 024° to 2100 then right turn

INT/OGG 24 DME. TAKEOFF RUNWAY 20: Climb heading 204° to 2100 then climbing left turn

to 6000 via heading 095° to intercept OGG VORTAC R-069 (V11) to SWEEP

to 6000 direct OGG VORTAC then via OGG R-069 (V11) to SWEEP INT/OGG 24 DME.

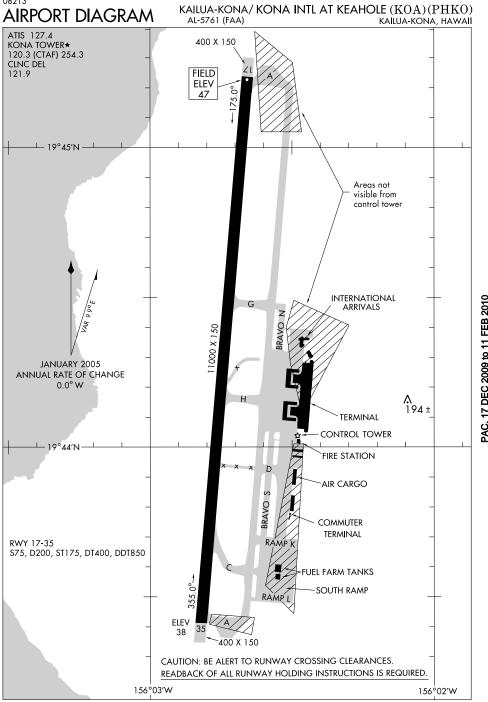
TAKEOFF OBSTACLE NOTES:

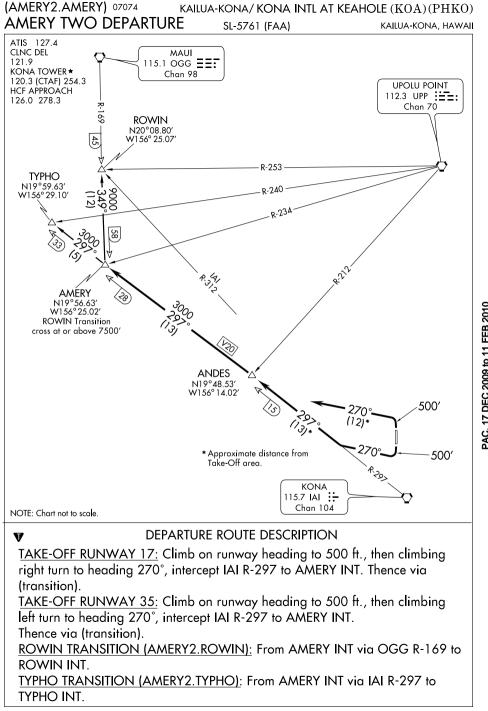
Rwy 2: Bush/trees beginning 190 feet from DER, 362 feet left of centerline, up to 60 feet AGL/79 feet MSL. Pipe on building 339 feet from DER, 289 feet right of centerline, 20 feet AGL/25 feet MSL. Bush beginning 902 feet from DER, 637 feet right of centerline, up to 20 feet AGL/39 feet MSL.

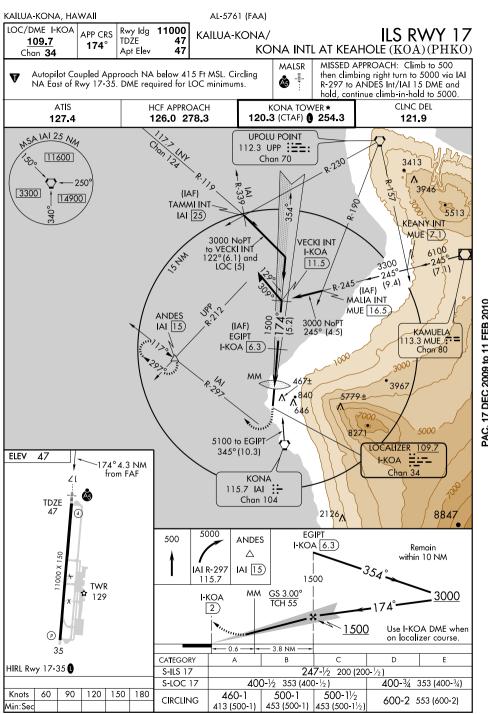
Rwy 5: Trees 2,359 feet from DER, 512 feet left of centerline, 56 feet AGL/75 feet MSL. Fence beginning 20 feet from DER, 299 feet right of centerline, up to 7 feet AGL/31 feet MSL. Bush/trees beginning 291 feet from DER, 300 feet right of centerline, up to 76 feet AGL/95 feet MSL.

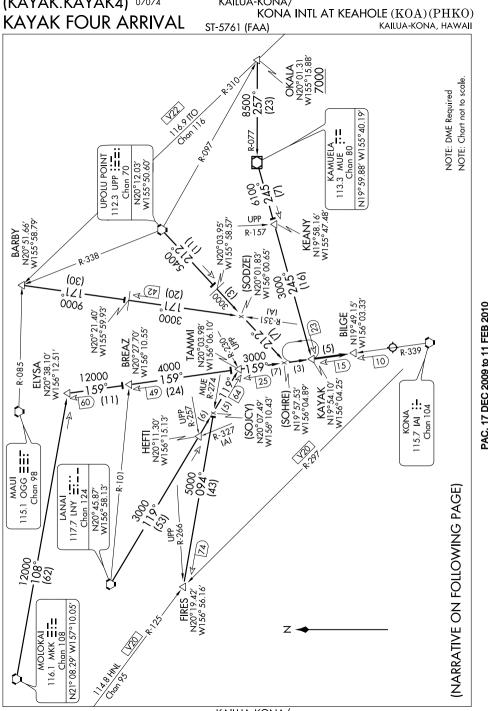
Rwy 20: Bush 22 feet from DER, 236 feet right of centerline, 2 feet AGL/55 feet MSL. Bush/trees beginning 24 feet from DER, 173 feet left of centerline, up to 29 feet AGL/68 feet MSL.

KAHULUI, HAWAII AL-762 (FAA) VORTAC OGG 6995 Rwy Idg VOR/DME or TACAN RWY 20 APP CRS 115.1 TDŹE 25 194° KAHULUI (OGG)(PHOG) Apt Elev 54 Chan 98 MISSED APPROACH: Climb to 6000 via OGG VORTAC R-187 When tower closed, procedure not authorized except to intercept LNY R-090, then climbing right turn direct DIPPS Int for operators with approved weather reporting service. HCF APPROACH ATIS MAUI TOWER★ GND CON CLNC DEL UNICOM 120,2 322,4 (NORTH) 128.6 118.7 (CTAF) 0 279.6 121.9 279.6 120.6 290.5 122,95 119.5 225.4 (SOUTH) (IAF) 3000 NoPT PLUMB OGG 13) Arc OGG 20.9 13) 3000 NoPT 140° (7.9) 10 NM 1.500 to Mikey 13) (8) OGG 25 (IAF) (IAF) MIKEY **OPANA** OGG 5 OGG [13] 3200 800± PAC. 17 DEC 2009 to 11 FFB 2010 R-069 6800 11100 104± 236± 7000 to Mikey 5788 014° (5) ₅₅₅ ^ R-085 1200± (IAF) 252 ∧ Λ_{456±} 2260 4617 335 1801± 4.04 MAU 1180± 115.1 OGG ==: 1742± 2628± Chan 98 6670 ELEV 54 194° 5 NM from FAF 117.7 LNY 102 ± Λ R-090 ^{'S} ⊥Ď∑E Chan 124 ·090° DIPPS INT LNY 22.2) 66 ± 6000 MIKEY 72 ± Remain OGG 5 DIPPS INY 196± within 10 NM R-090 Δ OGG R-187 118 115.1 3000 **VORTAC** 1500 Λ_{88±} 0.2 5 NM -CATEGORY C D Α В 400-11/4 S-20 400-1 375 (400-1) 375 (400-11/4) HIRL Rwy 2-20 0 520-1 560-1 620-11/2 640-2 CIRCLING MIRL Rwy 5-23 () 466 (500-1) 506 (600-1) 566 (600-11/2) 586 (600-2)

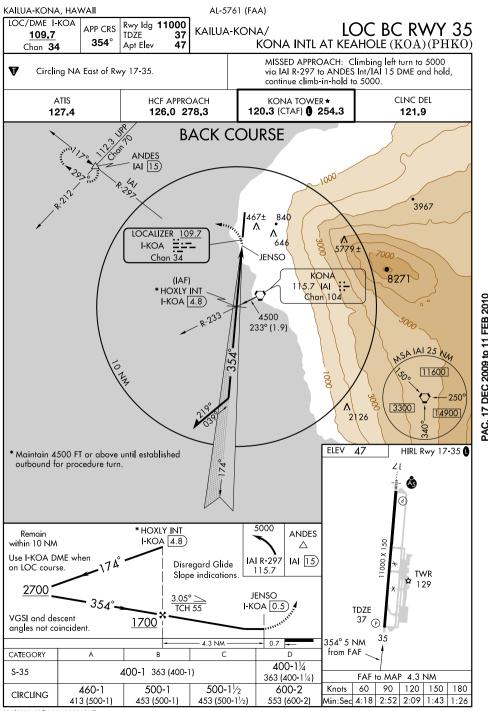


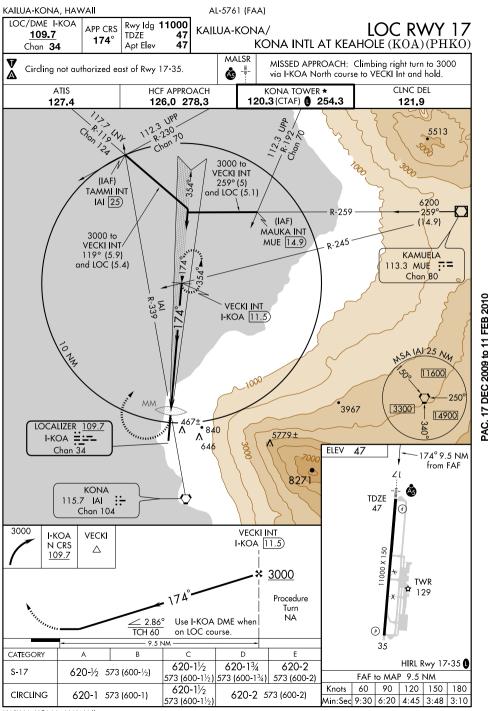


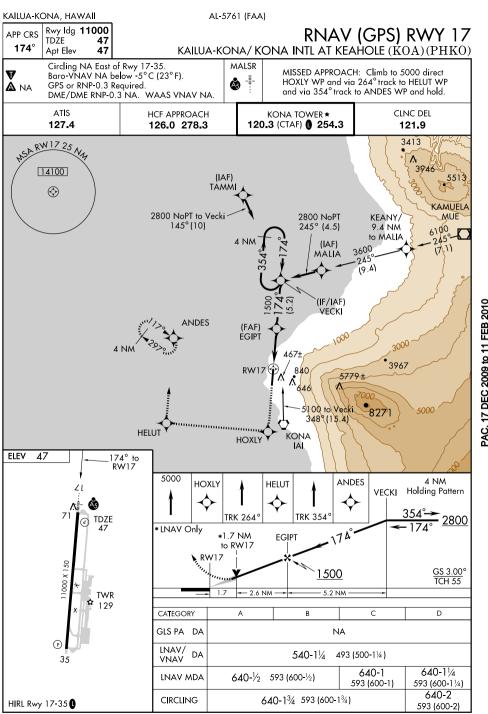


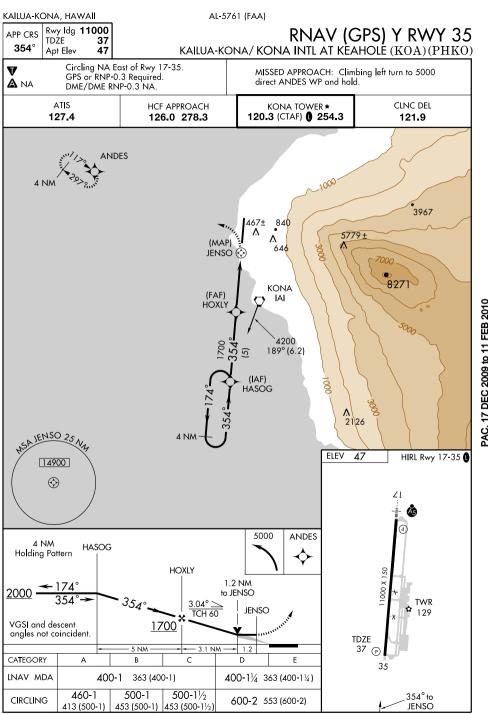


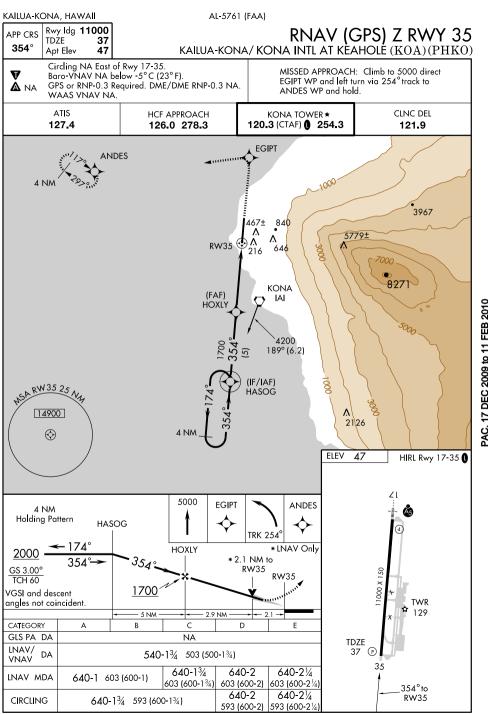
(KAYAK.KAYAK4) 07018 KAILUA-KONA/ KONA INTLAT KEAHOLE (KOA) (PHKO) KAYAK FOUR ARRIVAL KAILUA-KONA, HAWAII ST-5761 (FAA) ARRIVAL DESCRIPTION BARBY TRANSITION (BARBY.KAYAK4): From over BARBY INT via IAI R-351, UPP R-212 and IAI R-339 to KAYAK INT. Thence.... FIRES TRANSITION (FIRES.KAYAK4): From over FIRES INT via MUE R-274, LNY R-119 and IAI R-339 to KAYAK INT. Thence.... HEFTI TRANSITION (HEFTI.KAYAK4): From over HEFTI INT via LNY R-119 and IAI R-339 to KAYAK INT. Thence.... LANAI TRANSITION (LNY, KAYAK4): From over LNY VORTAC via LNY R-119 and IAI R-339 to KAYAK INT. Thence.... MOLOKAI TRANSITION (MKK.KAYAK4): From over MKK VORTAC via MKK R-108 and IAI R-339 to KAYAK INT. Thence.... OKALA TRANSITION (OKALA.KAYAK4): From over OKALA INT via MUE R-077 to MUE VOR/DME. Then via MUE R-245 to KAYAK INT. Thence.... UPOLU TRANSITION (UPP.KAYAK4): From over UPP VORTAC via UPP R-212 and PAC. 17 DEC 2009 to 11 FEB 2010 IAI R-339 to KAYAK INT, Thence....From over KAYAK INT via IAI R-339 to BILGE DME.

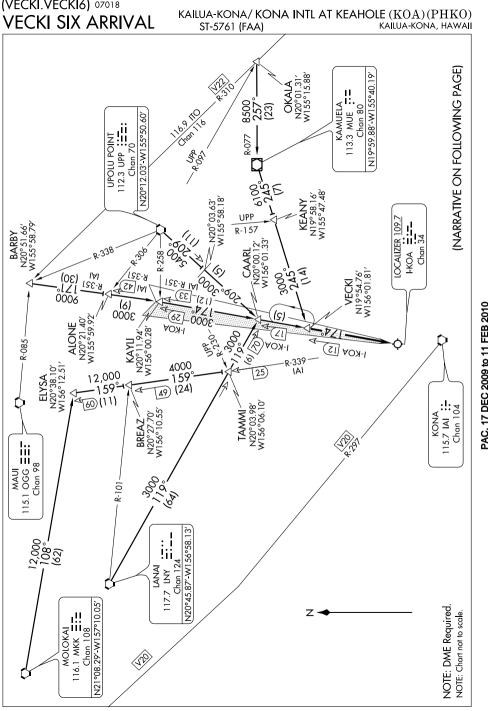






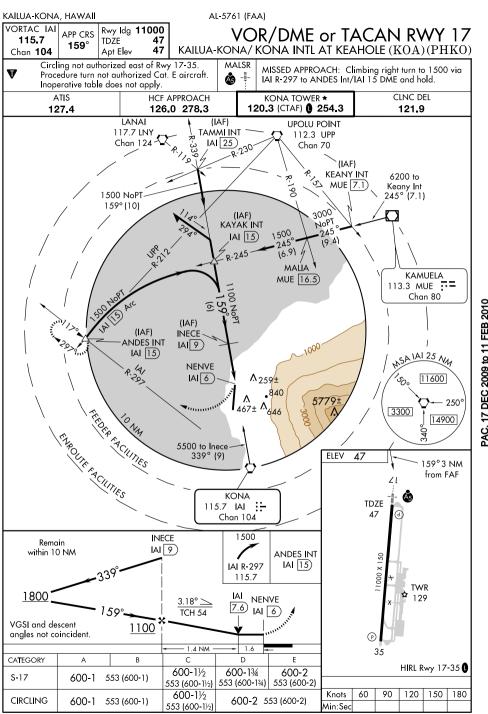


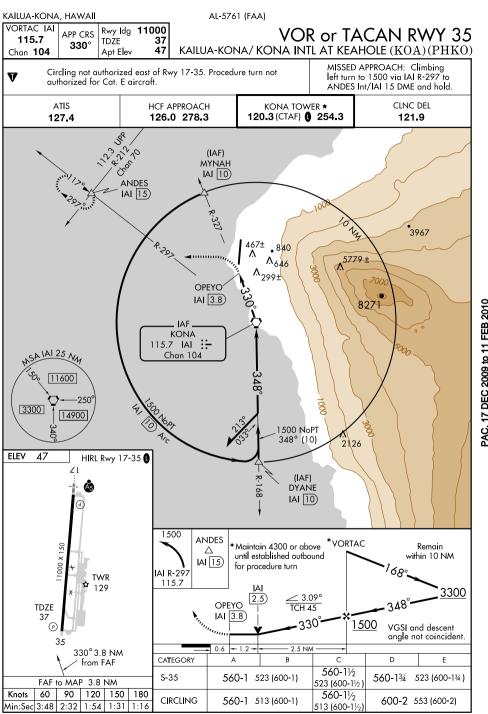


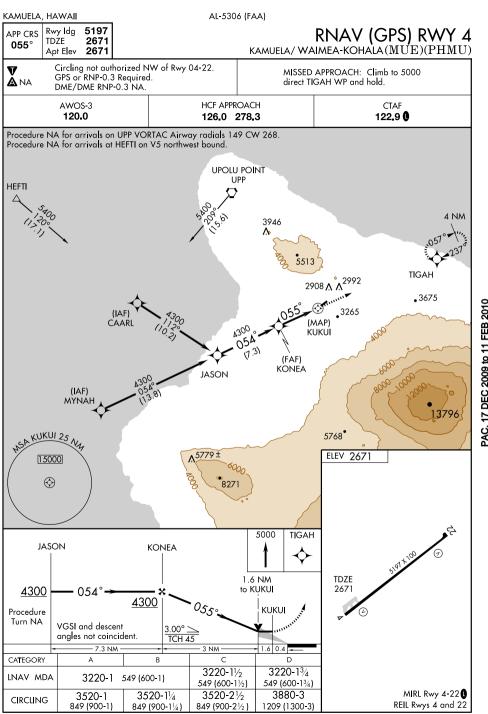


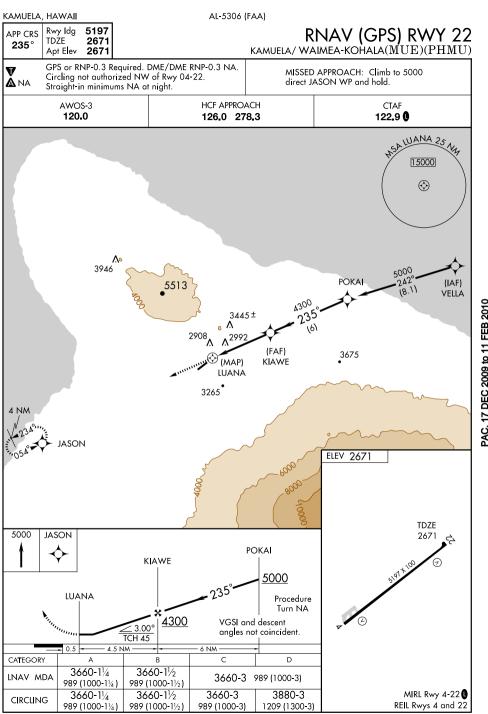
(VECKI.VECKI6) 07018 KAILUA-KONA/KONA INTL AT KEAHOLE (KOA) (PHKO) **VECKI SIX ARRIVAL** KAILUA-KONA, HAWAII ST-5761 (FAA) ARRIVAL DESCRIPTION BARBY TRANSITION (BARBY. VECKI6): From over BARBY INT via IAI R-351 and I-KOA localizer course to VECKI INT. Thence.... LANAI TRANSITION (LNY. VECKI6): From over LNY VORTAC via LNY R-119 and I-KOA localizer course to VECKI INT. Thence.... MOLOKAI TRANSITION (MKK. VECKI6): From over MKK VORTAC via MKK R-108, IAI VORTAC R-339, LNY R-119 and I-KOA localizer course to VECKLINT. Thence.... OKALA TRANSITION (OKALA. VECKI6): From over OKALA INT via MUE VOR/DME R-077 to MUE VOR/DME. Thence from over MUE VOR/DME via MUE R-245 to VECKLINT. Thence.... UPOLU TRANSITION (UPP. VECKI6): From over UPP VORTAC via UPP R-209 and I-KOA localizer course to VECKI INT. Thence....From over VECKLINT via I-KOA localizer course to KEAHOLE-KONA INTL AIRPORT.

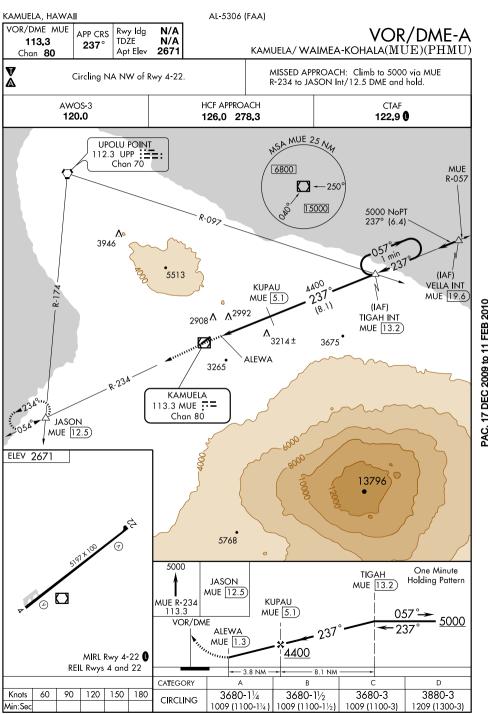
PAC. 17 DEC 2009 to 11 FEB 2010

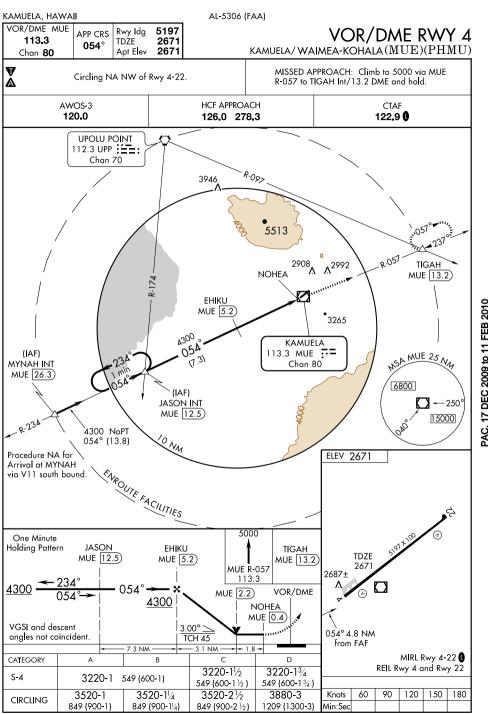


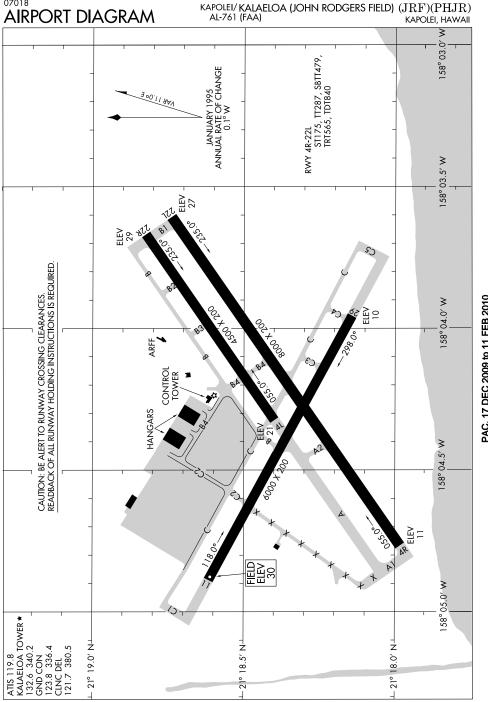


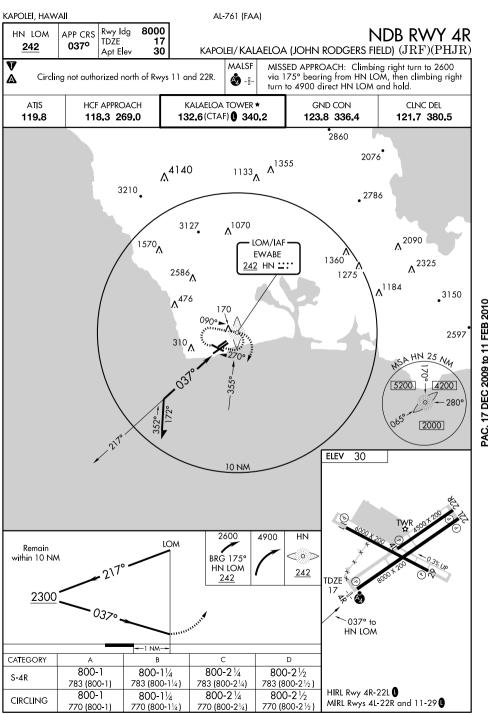


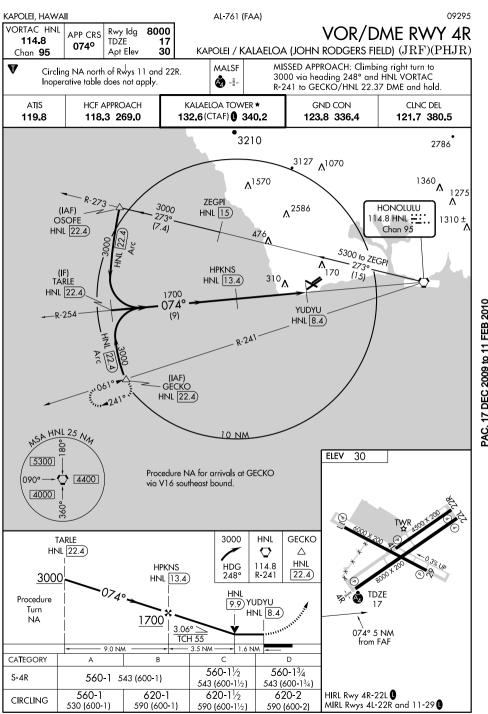


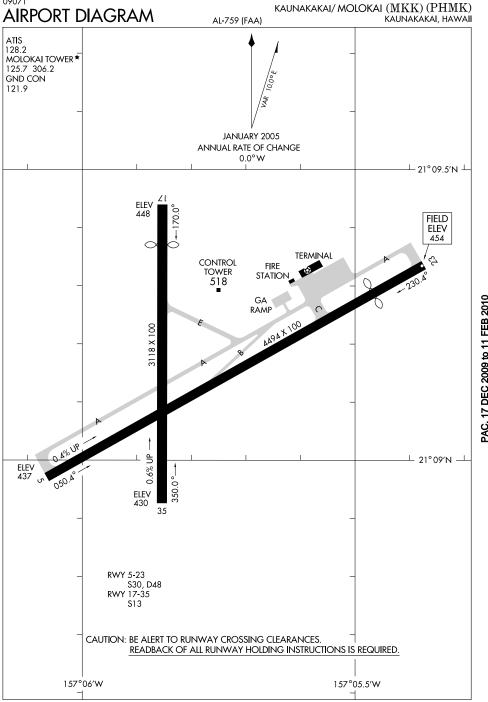












PAC. 17 DEC 2009 to 11 FEB 2010

TAKE-OFF RUNWAY 5: Climb via 049° heading to 860, then climbing left turn to 5000 via 034° heading and CKH R-075 to BLUSH INT.

GND CON 121.9 MOLOKAI TOWER★ 125.7 (CTAF) 306.2 HCF APPROACH 4000 124.1 317.5 *3500 MKK 10 Arc HAPAI N21°15.86' W157°03 02′ R-254 LOKIE MOLOKAI N21°07.44′ 116.1 MKK = :-R-305 W157°20.70′ Chan 108 N21°08.29′-W157°10.05′ LANAI TAKE-OFF MINIMUMS: 117.7 LNY Rwy 17, 35, 23: NA, ATC. Chan 124 Rwy 5: STANDARD with minimum obstacle NOTE: DME Required. climb of 395' per NM to 1600'. TAKE-OFF OBSTACLES: Rwy 5: Pole 2254' from DER, 222' right of centerline, 45' AGL/565' MSL. Tree 1.12 NM from DER, 720' right of centerline, 50' AGL/675' MSL. Fenceline beginning 147' from DER, 177' left of centerline, up to 12' AGL/471' MSL. Multiple trees and bushes beginning 50' from DER, 273' left of centerline, up to 50' AGL/551' MSL. Obstruction light 1366' from DER, 79' right of centerline, 30' AGL/528' MSL. Multiple poles beginning 3065' from DER, 644' left of centerline, up to 45' AGL/623' MSL. Multiple trees beginning 4155' from DER, 184' right of centerline, up to 50' AGL/714' MSL. NOTE: Chart not to scale V DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAY 5: Climbing left turn via 360° heading and MKK VORTAC R-030 to

LOKIE TRANSITION (HAPAI2.LOKIE): From over HAPAI via MKK VORTAC 10 DME Arc CCW

MOLOKAI TRANSITION (HAPAI2.MKK): From over HAPAI via 210° heading and MKK R-030

SL-759 (FAA)

KAUNAKAKAI/ MOLOKAI (MKK) (PHMK)

KAUNAKAKAI, HAWAII

PAC. 17 DEC 2009 to 11 FFB 2010

(HAPAI2.HAPAI) 07074

ATIS 128.2

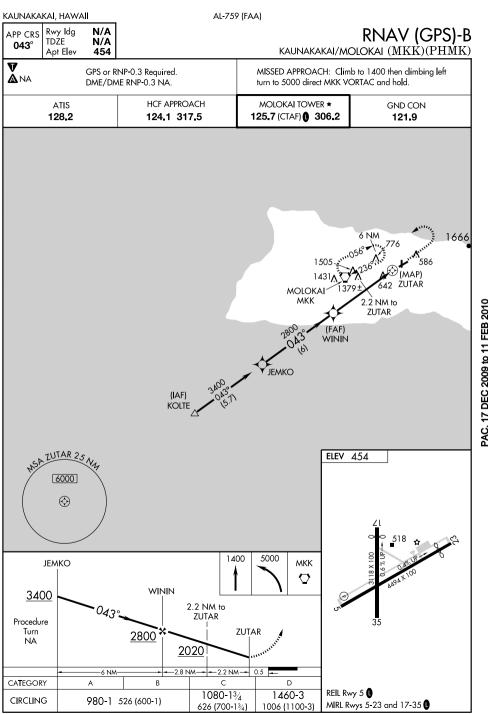
HAPAI TWO DEPARTURE

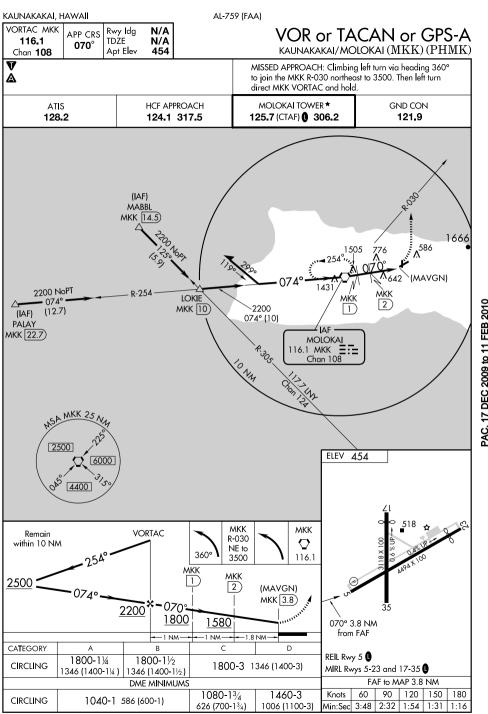
HAPAI/10 DME. Thence. . . .

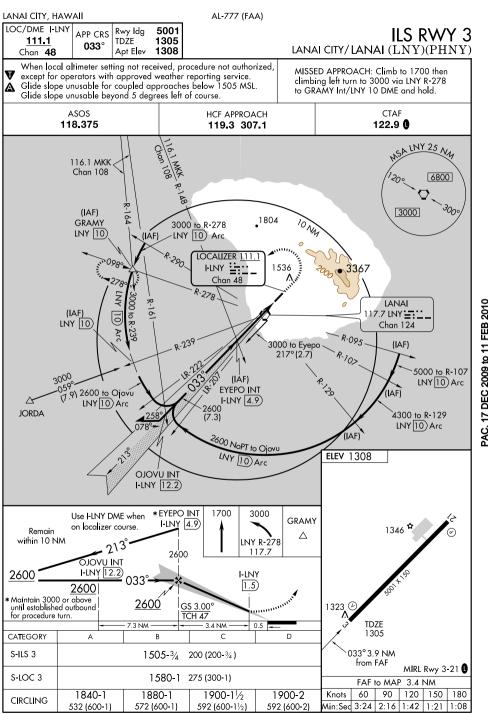
to LOKIE.

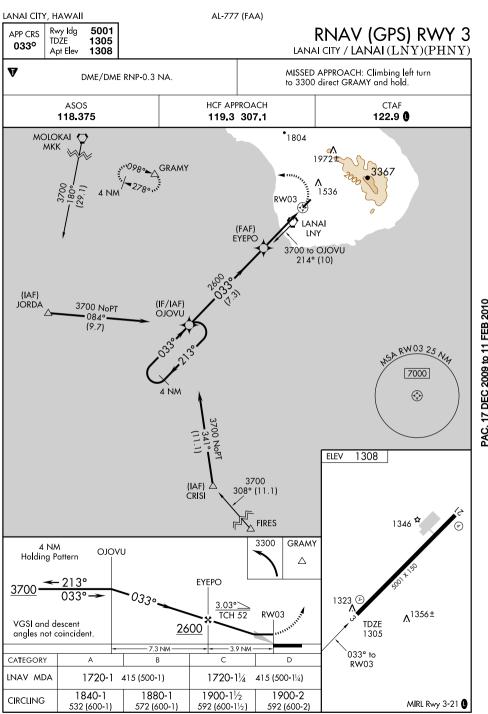
to MKK VORTAC.

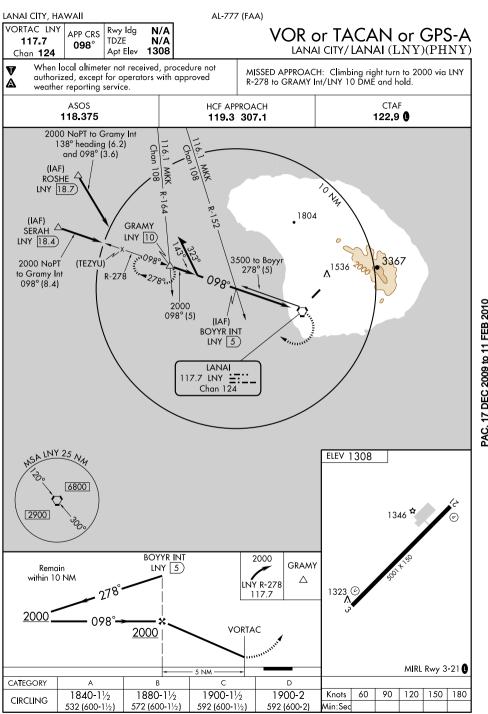
. . . . via (Transition). Maintain 4,000.

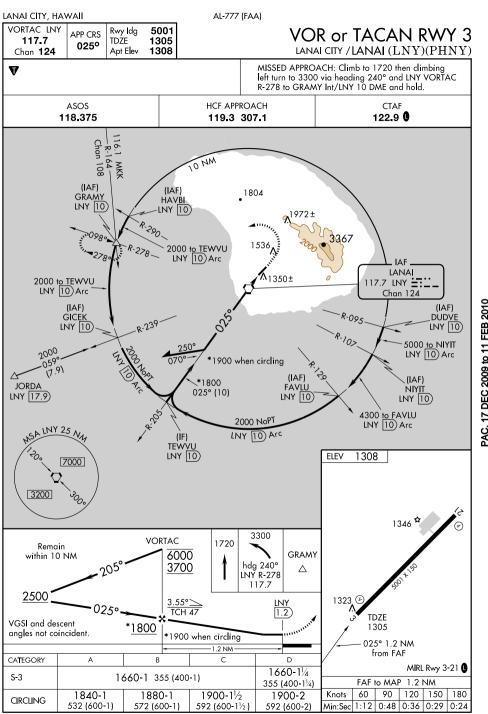


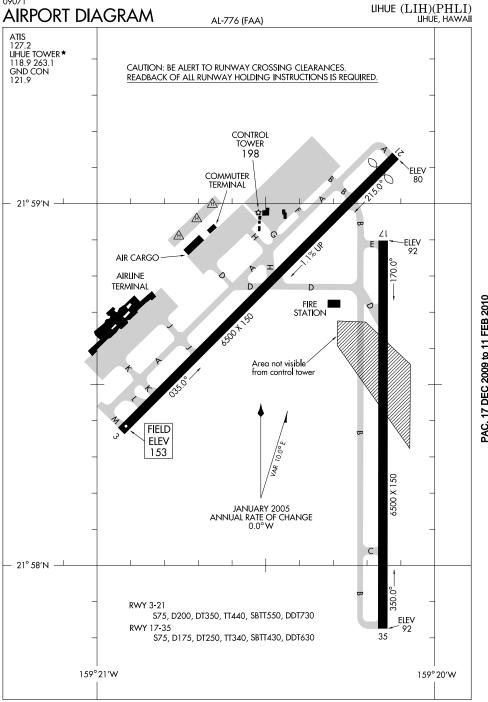


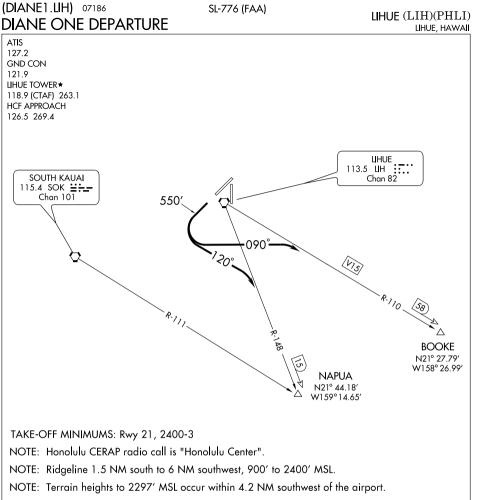












NOTE: This Departure not authorized for Rwy 3, Rwy 17, Rwy 35.

NOTE: Chart not to scale.

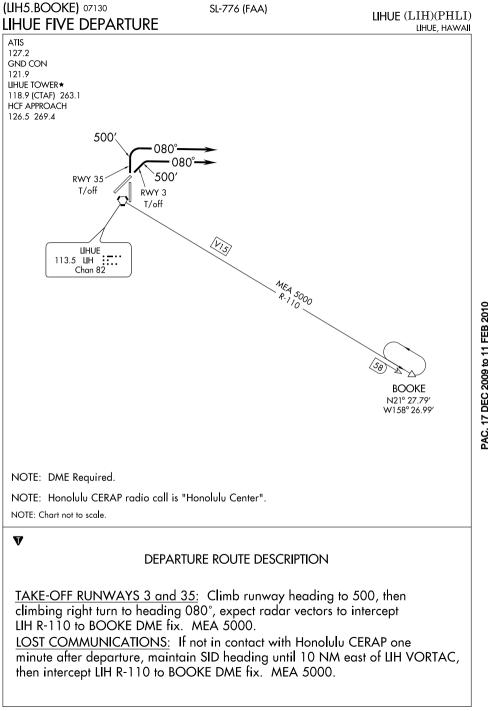


DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 21:

To V15: Climb runway heading to 550 then climbing left turn, heading 090°, to intercept LIH R-110 (V15), maintain 5000, direct BOOKE INT or as assigned.

To LIH R-148: Climb runway heading to 550, then climbing left turn, heading 120°, to intercept LIH R-148, maintain 3000, direct NAPUA INT or as assigned.



SL-776 (FAA)

LIHUE (LIH)(PHLI)

LIHUE, HAWAII

PAC. 17 DEC 2009 to 11 FEB 2010

(RICH2.BOOKE) 07130

ATIS
127.2
GND CON
121.9
LIHUE TOWER*
118.9 (CTAF) 263.1
HCF APPROACH

RICHE TWO DEPARTURE

